ASSEMBLY: UNCONCENTRATED

UNOCCUPIED

CALCULATED FOR USABLE

AREA AT FIRING POSITIONS

\_13' -\_0"\_\_ \_\_ MAXIMUM DIAGONAL DISTANCE & REQUIRED EXIT SEPARATION EXIT SEPARATION REQUIRED: 6' - 6" EXIT SEPARATION:

10' - 0"

EXIT SEPARATION DISTANCE

(X'-X")

Path Label——

C.P.T. (X'-X")

CODE PLAN LEGEND

NUMBER OF OCCUPANTS

PATH OF TRAVEL:

ACTUAL EGRESS OCCUPANT LOAD ALLOWABLE EGRESS OCCUPANT LOAD

TRAVEL DISTANCE TO NEAREST EXIT

COMMON TRAVEL DISTANCE

Vertical Fenestration,

Metal Framing

PORTABLE FIRE EXTINGUISHERS

(CLASS ABC)

FIRE FIRE EXTINGUISHER EXTINGUISHERS MULTI-PURPOSE CHEMICAL

**Energy Efficiency** [ASHRAE 90.1-2013] Climate Zone Space Category Compliance Path [Table B1-1] 7 [Section 5.1.2] Nonresidential [Section 5.2] Prescriptive Code Component [Table 5.5.7] Building Envelope Assembly Max. Insulation Min. Provided Clubhouse (Wood Framed) U-0.028 R-13+R7.5 C.I. R-13+R9 C.I. U-0.017 Walls, Above Grade Range (Masonry) U-0.028 R-36 C.I. R-36 C.I. U-0.017 Walls, Above Grade R-15.2 C.I. R-24 C.I. **Entire Building** R-16 C.I. Walls, Below Grade C-0.063 R-15 C.I. N/A R-25 FOR 48 IN. R-25 FOR 48 IN. F-0.671 Slab-on-Grade Floors U-0.500 Opaque Doors U-0.500 Fenestration Assembly Max. Max. SHGC Min VT/SHGC Provided [Table 5.5.5]

U-0.40

Operable

Entrance doors U-0.77

SHGC-0.45 1.10

Summary of Governing Regulations

Jurisdiction Local State Remarks Code-Enforcement State of Michigan - LARA Michigan

Title Code Edition Local Amendment (Y/N) Building Code Michigan Building Code 2015 No ICC A117.1 2009 No Accessibility Code 2015 No -Michigan Mechanical Code Mechanical Code National Electric Code 2017 No -Electrical Code 2015 No -Plumbing Code Michigan Plumbing Code 2015 No -Boiler Code Michigan Boiler Code Michigan Uniform Energy Code 2015 No -Energy Code International Fuel Gas Code Fuel Gas Code 2015 No -Life Safety Code NFPA 101 2012 No -

## **General Building Summary**

### **Project Description**

The Lake Superior Sportsman's Club leases and operates an existing clubhouse, indoor gun / archery range, along with outdoor gun ranges (rifle, pistol and shotgun), for the benefit of members and the general public. LSSC operates from property, approximately 140 acres, owned by the Department of Natural Resources, as a part of the Porcupine Mountains Wilderness State Park.

As a cooperative initiative, the DNR has partnered with the Lake Superior Sportsman Club, to develop an improved shooting complex within the 140-acre parcel. As part of the master plan, a new facility will be constructed and include the new clubhouse with indoor range, meeting space, and office space for club personnel. The gun range will be equipped to support 6 lanes and 75 foot target range. To support this facility, connection to municipal water and a new septic system is part of project.

Project S	Summary					
[Chapter 3]	Use & Occupancy Classification	on	A-2, A-3, B	MIXED USE	NON-SEPARATED	
[Chapter 5]	General Building Heights & Ar	eas	Allowed:	Actual:		
		Height: Stories: Area: Fror	40'-0" 1 10,500 SF ntage Increase	22'-0" 1 6,500 SF : 4,500 SF	[Table 504.3] [Table 504.4] [Table 506.2]	
			ntage Increase	.,	[1000 000.2]	

## Mixed Use & Occupancy

[Chapter 6] Types of Construction

Code	Type	Occ. Groups	Remarks
[Chapter 3]	Use & Occupancy Classification	A-2, A-3, B, S-1	MIXED USE NON-SEPARATED
[Section 508.2]	Accessory Occupancies	S-1	WITH ACCESSORY SPACES
[Section 508.3]	Nonseparated Occupancies	A-2, A-3, B	

## Fire-Resistance Ratings

	_			
Code	Element	Rating	Assembly	Remarks
[Table 601] [Section 706]	Primary Structural Frame	0		-
[Table 601] [Section 705] [Table 705.8]	Exterior Bearing Walls	0		-
[Table 601]	Interior Bearing Walls	0		-
[Table 602]	Ext. Nonbrg X < 5'	0		-
[Table 602]	5' < X < 10'	0		-
[Table 602]	10' < X < 30'	0		-
[Table 602]	X > 30'	0		-
[Table 601] [Section 711]	Floors	N/A		-
[Table 601] [Section 711]	Roof	0		-
[Table 705.8]	Exterior Wall Openings	N/A		-

## Fire Protection Systems

Code	System	Remarks
[Section 903]	Automatic Sprinker System	NS
[Section 906]	Portable Fire Extinguishers	YES
[Section 907]	Fire Alarm and Detection System	NO
[Section 908]	Emergency Alarm System	NO
[Section 912]	Fire Department Connection	NO
[Section 914]	Emergency Responder Safety Features	NO
[Section 915]	Carbon Monoxide Detection	NO
[Section 916]	Emergency Responder Radio Coverage	Shall be provided
	gs not equipped throughout with an automatic spr	inkler system

Buildings a maximum of one story above grade plane equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.1 Buildings two or more stories above grade plane equipped throughout with an automatic sprinkler system

installed in accordance with Section 903.3.1.1 S13R Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2 S13D Buildings equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.3

## Non-Sprinklered Means of Egress Occupant Load

[Table 1004.1.2]	Total Occupant Load		150	
	Egress Sizing	Factor	Required	Provided
[Section 1005.3.2]	Other Egress Components	0.2		
[Table 1006.3.1]	Minimum Number of Exits per	Floor	1-500 Occ. = 2	3
[Section 1010.1.1]	Minimum Egress Door Width	per Floor	0.2 x 150 = 32"	34" (2' - 10")
	Maximum Travel Dista	ances	Required	Provided
[Table 1017.2]	Exit Access Travel Distance		200'	max 53' - 0"
[Table 1006.2.1]	Common Travel Distance		75'	max 25' - 0"

### Plumbing Fixture Tabulation

iumbing fixture Tabulation						Restaurants, Ban	quet Halls, Food Courts	
	Water (	Closets	Lava	tories	Bathtubs	Drinking	Other	Remarks
	Male	Female	Male	Female	/Showers	Fountains	Other	Remarks
occ.	1 per 75	1 per 75	1 per 200	1 per 200	1	1 per 500	1 Service Sink	
uired	1	1	1	1	0	1		

Occupancy: A-2

ARCHITECTS ENGINEERS PLANNERS 424 Hancock Street

Hancock, MI 49930 PH 906.482.0535 | F 906.482.6453

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THE DOOR STATUS (GREEN = UNLOCKED, RED = LOCKED). LOCAL PULL STATIONS WILL OVERRIDE THE INTERLOCK BY REMOVING POWER TO THE LOCK. -

EXIT SEPARATION REQUIRED:

EXIT SEPARATION:

BUILDING

MAX DIAGONAL DISTANCE: 77' - 10"

38' - 11"

RANGE ENTRY TO BE CONTROLLED ENTRY: DOORS NORMALLY CLOSED AND UNLOCKED.

OPENING EITHER DOOR, MANUALLY OR BY USING ADA OPERATOR,

IN SEQUENCE WILL CAUSE THE OTHER DOOR TO LOCK UNTIL THE OPENED DOOR RETURNS TO ITS NORMAL (CLOSED) STATE.

RED AND GREEN LED'S LOCATED AT EACH DOOR WILL INDICATE

CONFERENCE ROOM

MAX DIAGONAL DISTANCE:

EXIT SEPARATION REQUIRED:

22' - 6"

EXIT SEPARATION:

30' - 6"

OFFICE

(EX. J 2x12@16)

JOIST INDICATOR

(WHERE

CONNECTOR SYMBOL

APPLICABLE)

(EX. IJ 14x19.2@16)

I-JOIST INDICATOR

APPLICABLE

0. CONTRACTOR SHALL NOT MIX GALVANIZED AND STAINLESS STEEL AT ANY TIME. ANY METAL PARTS IN CONTACT WITH OTHER METAL PARTS SHALL BE OF A 🛛 📙

CONTRACTOR SHALL RECOGNIZE EFFECTS OF THERMAL MOVEMENTS AND MOISTURE CONTENT CHANGES OF STRUCTURAL ELEMENTS DURING THE

CONSTRUCTION PERIOD AND CONSIDER THESE EFFECTS DURING CONSTRUCTION AND/OR ERECTION SEQUENCES.

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(EX. W-4-12)

WOOD WALL INDICATOR

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FNATURA

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ST

MINIMUM

NORTH

MISCELLANEOUS

MASONRY OPENING

MISC

CONTRACTOR SHALL VERIFY SOIL BEARING CAPACITY PRIOR TO CONSTRUCTION.

DESIGN LOAD BEARING CAPACITY: SEE LOADS TABLE.

SPECIAL DESIGN AND CONSTRUCTION PROVISIONS FOR THIS PROJECT'S FOUNDATIONS:

INCLUDE IN THE WORK PROVIDING ALL EQUIPMENT, MATERIAL, AND QUALIFIED LABOR NECESSARY FOR EXCAVATION, SHORING, DEWATERING SYSTEMS, BACKFILL, AND COMPACTION OF SOILS, AS REQUIRED TO CONSTRUCT STRUCTURES TO THE LINE AND GRADE AS SHOWN ON THE PLANS.

FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL TELEPHONE (800) 482-7171 NOT LATER THAN THREE BUSINESS DAYS PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL "MISS DIG" PARTICIPATING MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING OWNERS WHO MAY NOT BE PART OF THE "MISS DIG" ALERT SYSTEM.

EXCAVATE TO ELEVATIONS AND DIMENSIONS SHOWN ON THE PLANS WITHIN A TOLERANCE OF +/-0.10 FEET. EXCAVATE BY HAND TO FINAL GRADE FOR FOOTINGS.

NOTIFY THE ENGINEER FOR AN INSPECTION WHEN THE EXCAVATION HAS REACHED SUB-GRADE ELEVATION. IF UNSUITABLE BEARING MATERIALS ARE ENCOUNTERED AT SUB-GRADE ELEVATION. EXCAVATE AND REPLACE SUCH MATERIALS AS DIRECTED BY ENGINEER.

. SATISFACTORY SOIL MATERIALS ARE DEFINED AS GRANULAR MATERIALS CLASSIFIED AS GW, GP, GM, SW, SP, SW-SM, SP-SM OR SM BY THE UNIFIED SOILS CLASSIFICATION SYSTEM, ASTM D2487. LIMIT AMOUNT OF FINE MATERIAL PASSING NO. 200 SIEVE TO LESS THAN 5% MAXIMUM.

UNSATISFACTORY SOIL MATERIALS ARE DEFINED AS SOILS CLASSIFIED AS GC, SW-SC, SP-SC, SC, ML, MH, CL, CH, OL, OH, AND PT BY THE UNIFIED SOIL CLASSIFICATION SYSTEM, OR ANY ORGANIC MATERIAL. "MARL" IS AN UNSATISFACTORY SOIL MATERIAL.

BACKFILL ALL STRUCTURAL WORK WITH SATISFACTORY SOIL MATERIALS AND ENGINEERED FILL AS SHOWN ON PLANS. DO NOT BACKFILL WITH FROZEN MATERIALS. DO NOT PLACE ROCKS LARGER THAN 3" DIAMETER IN BACKFILL.

3. COMPACT SOILS BELOW FOOTINGS TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR, ASTM D1557.

. COMPACT BACKFILL IN LAYERS TO MINIMUM 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR, OR MICHIGAN CONE TEST.

## **CAST-IN-PLACE CONCRETE NOTES**

PROVIDE MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH OF 4,000 PSI (fc = 4,000 PSI). PROVIDE NORMAL WEIGHT CONCRETE, WITH 6% ± 1.5% ENTRAINED AIR FOR EXTERIOR APPLICATIONS MAXIMUM W/C RATIO < 0.45, AND MAXIMUM 4" SLUMP, UNLESS SUPER-PLASTICIZERS ARE USED. USE OF SUPER-PLASTICIZERS IS SUBJECT TO PRIOR APPROVAL BY THE ENGINEER.

PROVIDE READY-MIX CONCRETE CONFORMING TO ASTM C-94.

CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 117 301, 305R, 306.1, AND 308.1, LATEST APPLICABLE EDITION.

PLACE ANCHOR BOLTS SET IN CONCRETE TO RECEIVE STRUCTURAL STEEL WITHIN TOLERANCES SPECIFIED IN THE LATEST APPLICABLE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" IN LIEU OF TOLERANCES SPECIFIED IN ACI "STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS".

REINFORCING STEEL CONFORMING TO ASTM A-615, GRADE 60 IS REQUIRED. PLACE REINFORCING STEEL IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE.

CONFORM TO ASTM A706/A706M, GRADE 60 FOR REINFORCING STEEL TO BE WELDED, PLACE REINFORCING STEEL IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE. WELD REINFORCED STEEL IN ACCORDANCE WITH AWS D1.1 PERFORM WELDING BY CERTIFIED WELDERS. USE E70XX ELECTRODES.

POST INSTALLED ANCHORS OR REBAR SHALL BE ANCHORED INTO CONCRETE WITH POWERS PE1000+ EPOXY INJECTION ADHESIVE, OR AN APPROVED EQUAL. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION INSTRUCTIONS, SEE DETAILS FOR MINIMUM EMBEDMENT.

REINFORCING STEEL SHALL HAVE A MINIMUM CONCRETE COVER AS LISTED BELOW UNLESS OTHERWISE NOTED.

A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED EARTH: 3"

B. CONCRETE CAST AGAINST FORMS BUT EXPOSEDTO EARTH OR WEATHER NO. 5 OR SMALLER 1 1/2"

2. GREATER THAN NO. 5 2" C. SLAB ON GRADE: 2" FROM T/SLAB

### **MASONRY NOTES**

CONSTRUCT MASONRY IN ACCORDANCE WITH ACI 530.1/ASCE 6-CURRENT EDITION.

PROVIDE NORMAL WEIGHT CONCRETE UNIT MASONRY UNITS MANUFACTURED IN ACCORDANCE WITH ASTM C90, F'm = 2,000 PSI.

GROUT VOIDS AS INDICATED ON THE DRAWINGS, WITH GROUT CONFORMING TO ASTM C476. GROUT BLOCK CORES UNDER BEAM BEARINGS AND AT LEAST 8" EACH SIDE OF BEARING. PROVIDE SLUMP BETWEEN 8 AND 11 INCHES.

LAY UNIT MASONRY IN A RUNNING BOND PATTERN UNLESS SPECIFICALLY SHOWN OTHERWISE ON THI PLANS. TOOLS ALL JOINTS, ALL SURFACES.

MORTAR SHALL BE TYPE S COMPLYING WITH ASTM C270 IS REQUIRED.

PROTECT MASONRY BY COVERING TOP OF WALLS WITH WATERPROOF SHEETING AT THE END OF EACH DAY. DO NOT LAY WET OR FROZEN BRICK, STONE, OR BLOCK. PROVIDE TEMPORARY HEAT WHEN AMBIENT TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT. MAINTAIN MINIMUM 50 DEGREE TEMPERATURE FOR 48 HOURS AFTER PLACING MASONRY.

GROUT ALL CORES CONTAINING REBAR AND VOIDS WHERE INDICATED.

ALL CORES BELOW GRADE SHALL BE GROUTED SOLID UP TO FINISHED FLOOR ELEVATION.

CORES CONTAINING EXPANSION OR ADHESIVE ANCHORS SHALL BE GROUTED SOLID.

). ALL VERTICAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH BOND BEAMS. ALL HORIZONTAL REINFORCEMENT IN BOND BEAMS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE BENT BARS OF THE SAME SIZE AND NUMBER WITH A LAP OF 48 BAR DIAMETERS (12" MINIMUM).

COORDINATE WALL OPENINGS AND OTHER WALL CONFIGURATIONS WITH ARCHITECTURAL. MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, AND OTHER DISCIPLINES.

POST INSTALLED ANCHORS OR REBAR SHALL BE ANCHORED INTO MASONRY WITH POWERS PE1000+ EPOXY INJECTION ADHESIVE, OR AN APPROVED EQUAL. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR INSTALLED INSTRUCTIONS. SEE DETAILS FOR MINIMUM EMBEDMENT.

PROVIDE HORIZONTAL JOINT REINFORCEMENT IN ALTERNATE COURSES (16" OC) USING 9 GA DURATRUSS OR EQUAL.

BAR SIZE	MINIMUM LAP SPLICE (SINGLE REINFORCEMENT)	COMMENT
#3	18"	
#4	24"	
#5	30"	MIN 8" CMU
#6	38"	MIN 8" CMU
#7	42"	MIN 12" CM
#8	50"	MIN 12" CM
#9	64"	MIN 12" CM

## STEEL DECKING NOTES

STEEL DECKING (ROOF AND FLOOR) SHALL BE GALVANIZED STEEL SHEET CONFORMING WITH SDI.

STEEL DECKING INSTALLATION AND CONNECTIONS SHALL CONFORM WITH SDI.

### STEEL JOISTS AND GIRDER NOTES

STEEL BAR AND GIRDER JOISTS SHALL BE IN ACCORDANCE WITH SJI STANDARD SPECIFICATIONS. MINIMUM BEARING SHALL BE 6" ON MASONRY AND 4" ON STEEL. EXTEND BEARING END LENGTHS TO CENTER JOIST REACTION OVER WALL OR BEAM CENTERLINE.

PROVIDE STAGGERED END BEARING LOCATIONS AND EXTEND BEARING END LENGTHS TO CENTER JOIST REACTIONS OVER JOIST GIRDER CENTERLINE. ALTERNATIVELY, PROVIDE BOTTOM CHORD JOIST BRACING FROM ADJACENT JOIST BOTTOM CHORDS.

ERECT STEEL JOISTS AND JOIST GIRDERS IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS AND SJI STANDARD SPECIFICATIONS AND SJI TECHNICAL DIGEST #9.

DURING ERECTION, PROVIDE TEMPORARY BRACING PER OSHA REQUIREMENTS.

## LOOSE LINTEL & FRAMING NOTES

FOR ALL FRAMING & OPENINGS IN WALLS, INCLUDING THOSE FOR DOORWAYS, DUCTS & EQUIPMENT, PROVIDE (1) ANGLE FOR EACH 4" OF WALL THICKNESS AS FOLLOWS:

SPANS 4'-1" TO 7'-0": L5x3 1/2x5/16

SPANS TO 4'-0": L3 1/2x3 1/2x5/16

SPANS LARGER THAN 7'-0": REFER TO LINTEL SCHEDULE

INTEL BEARING (MIN)

SPANS TO 4'-0": 6" EACH END SPANS 4'-1" TO 7'-0": 8" EACH END

SPANS LARGER THAN 7'-0": PROVIDE BEAMS WITH PLATES AS SHOWN ON PLANS

ALL OPENINGS ARE NOT SHOWN IN THE FRAMING PLANS. REFER TO ARCHITECTURAL, MECHANICAL &

ELECTRICAL DRAWINGS AND DETAILS FOR OPENINGS AND RECESSES. WHERE ARE NOT DETAILED OR NOTED, PROVIDE LINTELS FOR ALL OPENINGS PER ABOVE LOOSE

LINTEL SCHEDULE.

EQUIPMENT SUSPENDED FROM STEEL JOISTS: USE ANGLE LINTEL, SPAN (3) JOIST MIN, TOP CHORD, WELD OR CLAMP TO JOIST. FOR OPENINGS ON FLOOR AND ROOF DECKS, PROVIDE ANGLES EACH SIDE, FASTEN TO JOISTS AND

DECK WITH CLIPS AND SCREWS. ALL EXTERIOR, EXPOSED STL LINTELS SHALL BE HOT DIPPED GALVANIZED.

### WOOD FRAMING NOTES

- TREATED FOR GROUND CONTACT. PRESSURE-TREATED (PT) WOOD SHALL BE PREPARED IN ACCORDANCE WITH ASTM D1760 USING WATERBORNE PRESERVATIVES AND OBTAIN 0.25 PCF PENETRATION FOR ABOVE GRADE AND 0.40 PENETRATION FOR GROUND CONTACT.
- FLOOR TRUSS JOISTS SHALL BE TRUSS-JOIST MCMILLIAN TJI SERIES OR EQUAL. INSTALL PER
- HANGERS/CONNECTORS SHALL BE 18 GA GALVANIZED, SIMPSON STRONG-TIE OR EQUAL. USE
- B. WALL SHEATHING: 1/2" MIN, 32/16 EXPOSURE 1
- MINIMUM REQUIREMENTS FOR ENGINEERED WOOD PRODUCTS ARE INDICATED AS FOLLOWS. PROVIDE BRACING AND DETAIL INSTALLATION PER MANUFACTURER'S REQUIREMENTS FOR ALL PRODUCTS.
  - A. LVL: 2.0E LAMINATED VENEER LUMBER; Fb=2,600 PSI; E=2.0X10^6 PSI; Fv=285 PSI; Fcperp =750
  - B. PSL: 2.0E PARALLAM PARALLEL STRAND LUMBER; Fb=2.900 PSI; E=2.0X10^6 PSI; Fv=290 PSI; Fc=
  - C. GL: 24F-V4 WESTERN SPECIES GLUE LAMINATED TIMBER MANUFACTURED IN ACCORDANCE WITH ANSI/AITC A190.1-1992. APPEARANCE GRADE. TJI/PRO: WOOD "I" FLOOR JOISTS AS MANUFACTURED BY WEYERHAEUSER, OR APPROVED EQUIVALENT, L/500 MAXIMUM LIVE LOAD PERFORMANCE FOUND GOOD TO EXCELLENT BY AT
- INSTALL SOLID 2X S4S BLOCKING AT ALL RAFTER BEARINGS. ADJUST BLOCK DEPTH AS REQUIRED FOR
- DESIGN FLOOR TRUSSES AND ROOF TRUSSES TO CONFORM WITH LOCAL CODES AND THE DESIGN LOADS STATED HEREIN. SUBMIT SHOP DRAWINGS FOR APPROVAL, PRIOR TO FABRICATION.
- "WD COL" DENOTES SOLID OR BUILT-UP WOOD COLUMNS, GLUE AND NAIL STUDS TOGETHER TO FORM BUILT-UP WOOD COLUMNS. USE NUMBER OF STUDS FOR EACH COLUMN SUCH THAT THE COLUMN WIDTH EQUALS OR EXCEEDS THE WIDTH OF THE SUPPORTED MEMBER, BUT IN NO CASE LESS THAN THREE STUDS. SOLID BLOCK ALL FLOORS DIRECTLY UNDER WOOD COL, THEN CONTINUE WOOD COL TO SUPPORT (BEAM, FOOTING OR FOUNDATION WALL).
- WHERE HEADERS ARE NOT SPECIFIED OVER DOORS, WINDOWS OR OTHER OPENINGS, PROVIDE A MINIMUM (2) 2X10 HEADER. U.N.O. ALL WINDOW PENETRATIONS SHALL HAVE MINIMUM (2) SILL PLATES
- . STEEL PLATES OR FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER AND PROTECTED
- . FASTEN MEMBERS IN ACCORDANCE WITH MICHIGAN BUILDING CODE TABLE 2304.9.1, UNLESS
- 2. WHERE NOTED, NAIL SIZES ARE BASED ON THE FOLLOWING MINIMUM SIZE

- SUPPORT THE LOADS INDICATED ON THE PLANS. TRUSSES SHALL HAVE A MAXIMUM DEFLECTION OF L/360 AND SHALL BE SPACED AT 2'-0" O.C. MAX.
- STATE OF MICHIGAN. SHOP DRAWINGS FOR EACH TRUSS SHALL SHOW SIZE, SPECIES AND STRESS GRADES OF ALL LUMBER. METAL PLATE TYPE. ORIENTATION AND SIZES. BEARING AND UPLIFT BE INCLUDED.
- TRUSS MANUFACTURER SHALL DESIGN TRUSSES FOR WIND LOADS PER SEI/ASCE 7-02. WOOD TRUSS FABRICATION SHALL COMPLY WITH TPI 1-95, "NATIONAL DESIGN".
- CONTRACTOR SHALL SUPPLY, INSTALL, AND REMOVE ALL NECESSARY TEMPORARY BRACING "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD
- PROVIDE DIMENSIONAL LUMBER OF ANY SPECIES FOR TRUSS CHORD AND WEB MEMBERS, CAPABLE OF SUPPORTING THE REQUIRED LOADS WITHOUT EXCEEDING ALLOWABLE DESIGN VALUES ACCORDING TO AFPA'S "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" AND ITS "SUPPLEMENT".
- PER WTCA BCS1 1-03. INSTALL AND FASTEN PERMANENT BRACING DURING TRUSS ERECTION AND BEFORE CONSTRUCTION LOADS ARE APPLIED. ANCHOR ENDS OF PERMANENT BRACING WHERE TERMINATING AT WALLS OR BEAMS.8. PER TPI HIB-91 "COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING & BRACING
- IN ADDITION TO THE ANY LATERAL BRACING WHICH IS REQUIRED BY THE TRUSS MANUFACTURER/SUPPLIER, THE CONTRACTOR SHALL PROVIDE AND INSTALL PERMANENT DIAGONAL STABILITY BRACING FOR ALL COMPRESSION WEBS AND PRIMARY TOP CHORDS OF PIGGY BACK TRUSSES OR OTHER MEMBERS WHICH REQUIRE BRACING TO REDUCE THEIR BUCKING LENGTH. THIS BRACING SHALL CONSIST OF 2X4's ATTACHED TO EACH WEB MEMBER WITH NOT LESS THEN 2 - 16d NAILS. BRACING SHALL EXTEND ON A 45 DEGREE DIAGONAL FROM THE TOP TO BOTTOM OF THE WEBS. FOR EACH BRACED MEMBER, DIAGONALS SHALL BE INSTALLED IN CHEVRON PAIRS WITH ONE PAIR OF DIAGONALS AT EACH END OF THE SERIES OF TRUSSES AND NOT MORE THAN 20 FEET BETWEEN PAIRS.

- ALL FRAMING SHALL BE SPRUCE-PINE-FIR (S.P.F.) NO. 2 OR BETTER: Fb=875 PSI: E=1.4X10^6 PSI: Fv=135 PSI; Fcperp =425 PSI. ALL WOOD LABELED "PT" SHALL BE S.P.F. NO.2 OR BETTER AND BE PRESSURE
- MANUFACTURERS SPECIFICATIONS AND STANDARD DETAILS.
- HANGERS FOR THE USE AS RECOMMENDED BY THE MANUFACTURER.
- SHEATHING/FLOORING SHALL BE APA GRADED AS FOLLOWS
- A. ROOF SHEATHING: 5/8" MIN, 40/20 EXPOSURE 1
- C. FLOOR SHEATHING: 3/4" MIN, STURD-I-FLOOR EXPOSURE 1, T&G, GLUED AND NAILED
- - PSI, AS MANUFACTURED BY WEYERHAEUSER, OR APPROVED EQUIVALENT. 650 PSI, AS MANUFACTURED BY TRUS JOIST MACMILLAN, OR APPROVED EQUIVALENT.
  - LEAST 95% OF POPULATION. PROVIDE SHOP DRAWINGS AND REVIEW OF JOIST SELECTION, CERTIFYING PERFORMANCE VALUE. PROVIDE BRIDGING, BLOCKING, AND WEB STIFFENERS AS REQUIRED BY MANUFACTURER/SUPPLIER.
- AIR SPACE.

- WITHIN THE BUILDING ENVELOPE (ADEQUATELY SHIELDED FROM DIRECT CONTACT WITH MOISTURE) SHALL BE STAINLESS STEEL OR GALVANIZED TO G60 PER ASTM A924 REQUIREMENTS. STEEL PLATES OR FASTNERS IN CONTACT WITH PRESSURE TREATED LUMBER LOCATED OUTSIDE OF THE BUILDING ENVELOPE OR EXPOSED TO MOISTURE SHALL BE STAINLESS STEEL OR GALVANIZED TO G90 PER AST
- OTHERWISE NOTED.

SIZE	DESIGNATION	MIN SIZE
6d	BOX	2" x 0.099" DIA
6d	COMMON	2" x 0.113" DIA
8d	BOX	2 1/2" x 0.113" DIA
8d	COMMON	2 1/2" x 0.131" DIA
10d	BOX	3" x 0.128" DIA
10d	COMMON	3" x 0.148" DIA
12d	BOX	3 1/4" x 0.128" DIA
12d	COMMON	3 1/4" x 0.148" DIA
16d	BOX	3 1/2" x 0.135" DIA
16d	COMMON	3 1/2" x 0.162" DIA

## PRE-ENGINEERED WOOD TRUSS NOTES

- CONTRACTOR SHALL PROVIDE AND INSTALL METAL-PLATE CONNECTED WOOD TRUSSES DESIGNED TO
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE REQUIREMENTS. ALL LOAD CASES INVESTIGATED AND MAXIMUM STRESSES IN EACH MEMBER SHALL ALS(
- REQUIRED FOR INSTALLATION OF WOOD TRUSSES AND MEMBERS IN ACCORDANCE WITH DSB-89.
- METAL PLATE CONNECTORS SHALL COMPLY WITH TPI 1, HOT-DIP GALVANIZED STEEL SHEET: ASTM A653/A653 M, G60 COATING DESIGNATION; DESIGNATION SS, GRADE 33, AND NOT LESS THAN 0.036 IN.
- CONTRACTOR SHALL INSTALL SIMPSON STRONG-TIE MODEL H3 TIE-DOWNS UNLESS NOTED OTHERWISE, AT ALL BEARING LOCATIONS OF ALL TRUSSES. TRUSSES SHALL BE HANDLED AND INSTALLED
- METAL PLATE CONNECTED WOOD TRUSSES".



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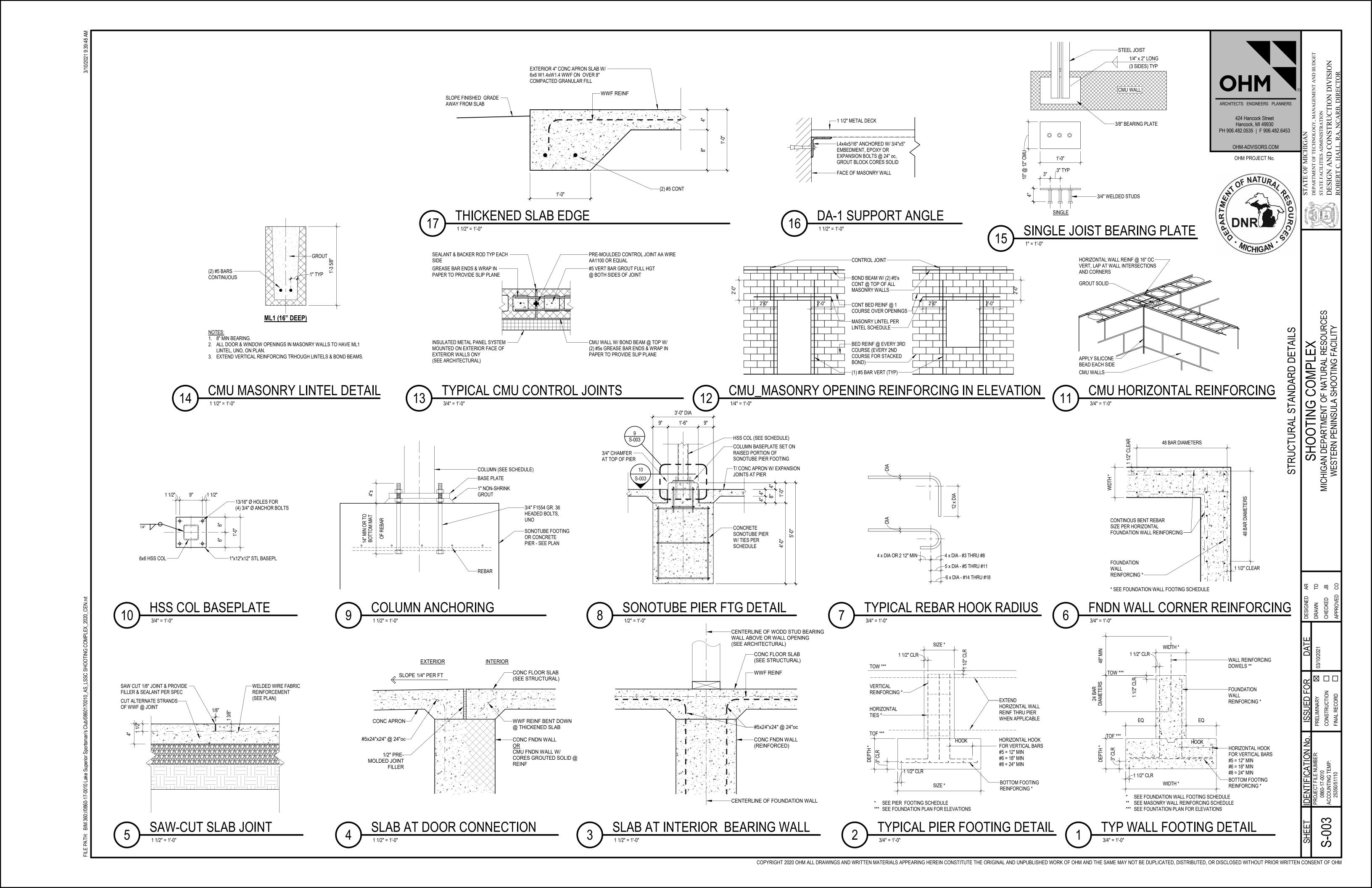
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2 g ?



HOLD DOWN LOCATIONS TYPICALLY EACH SIDE OF FRAMED WINDOW OPENING AT EXTERIOR WALLS. INSTALL HOLD DOWN AT ONE SIDE OF FRAMED WINDOW OPENING AT ONE LOCATION AT WALL ON COL LINE "J" . REFER TO PLAN. COORDINATE WITH FRAMING AFTER SLAB IS POURED.

COLUMN SCHEDULE			
I.D. # (DESIGNATED Cx)	COLUMN SIZE	BASE PLATE	CAP PLATE
C1	HSS 6x6x3/8		

CONCRETE WALL FOUNDATION SCHEDULE				
I.D. # (DESIGNATED CWF-x)	CWF-1	CWF-2		
WIDTH (FT)	1'-4"	1'-8"		
STEEL VERTICAL	#5 @ 12" OC	#5 @ 12" OC		
STEEL HORIZONTAL TIES	#5 @ 8" OC	#8 @ 12" OC		

PIER SCHEDULE		
I.D. # (DESIGNATED Px)	P1	F2
TYPE	INTEGRAL	SONOTUBE
HEIGHT (FT)	3'-4"	4'-0"
WIDTH (FT)	2'-8"	
LENGTH (FT)	1'-8"	
DIAMETER (FT)		3'-0"
STEEL VERTICAL		(4) #4
STEEL HORIZONTAL TIES		(3) #3

I.D. # (DESIGNATED Fx)	F1	F2	F3	F4
TYPE	SPREAD	SPREAD	SPREAD	SPREA
THICKNESS OR DEPTH (IN)	12"	12"	12"	12"
WIDTH (FT)	2'-4"	4'-0"	5'-6"	6'-0"
LENGTH (FT)				6'-0"
DIAMETER (FT)				
STEEL BOTT - CONITINUOUS	(2) #5	#5 @ 12" OC	#5 @ 12" OC	#5 @ 12
STEEL BOTT - PERPENDICULAR	#5 @ 32" OC	#5 @ 12" OC	#5 @ 12" OC	#5 @ 12
STEEL TOP	#5	#5	#5	#5

### SCHEDULE NOTES:



OF NATURAL	) TT V
Pres Pres	Ę
DNR	
and single	

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MICHIGAN.

	(#5 = 12", #8 = 2. PROVIDE "L" 3. PROVIDE #5 E	PRIZONTAL HOOKS ON ALL VERTICAL BARS, TURNED OUT AWAY FROM CENTERLINE = 24").  30"x30" FOR #5 HORIZONTAL LAP BARS AT ALL CORNERS.  BARS @ 36" OC PERPENDICULAR TO BOTTOM FOOTING BARS FOR WALL FOOTINGS.  LANS FOR STRIP FOOTING LENGTHS.
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	BA
10'-4" 34'-6"  10'-4" 51'-8"  1'-4" 33'-0" 1'	15'-8" 2'-1" 14'-2" 28'-0" 14'	14'-0"
9" 10'-4" 50'-2" 11"   Towns of the state of	9" 1'-4" 5" CWF-1 FTG F1	# <b>4</b>
TOW = 99'-4"	17'-0" APRON 25'-0" 45'-0" APRON  W1.4xW1.4 WWF ON OVER 8"	
DEPRESS FOR DOOR  FTG F1  HD3  HD3  HD3  WWF ON VAPOR BARRIER OVER 8"  COMPACTED GRANULAR FILL	FTG F1  COMPACTED GRANULAR FILL. THICKENED EDGE W/ REINFORCING  PIER P2  PIER P2  PIER P2  TOP: 99'-4"  BOT: 95'-0"	PIER P2 3 
HD3	TOP: 99'-4" BOT: 96'-0" S-003 TYP ALL SONOTUBE PIER FOOTINGS  TYP AT EDGES	23-0" APRON 21-0"  21-0"
MD3 HD3 HD3 2 2 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FTG F2	00TTO OUT TO OUT ON FOUND
DEPRESS FOR DOOR  TOW = 100'-0"  TOW	TOW = 99'-4"  TOW = 99'-4"	
1.2 FTG F1  POWER/ DATA UNITS (2)  HD1  POWER/ DATA UNITS (2)	THE CONC SLAB W/ 6x6 W1.4xW1.4  WWF ON VAPOR BARRIER OVER 8"  COMPACTED GRANULAR FILL  DEPRESS TOP OF	CWF-1
SET IN FLOOR SLAB. COORDINATE WITH ELECTRICAL CONTRACTOR	FOUNDATION WALL 8" FOR DOOR OPENING (TYP)  TOW = 99'-4"	
0.1 9" 9'-7" 9" 34'-6"	5'-0" 3'-4"	FTG F2  TYP ALL  REFER TO ARCHITECTURAL PLANS FOR SIMPLIFIED
1'-4" 9'-0" 1'-4" 33'-0" 36'-0"	101'-4" WALLS (UNO) 102'-8" 149'-0" OUT TO OUT ON FOUNDATION	WALL FTGS BUILDING SECTIONS AND DETAILED WALL SECTIONS FOR VISUAL REFERENCE
10'-4"	103'-5"	

FOUNDATION PLAN

1/8" = 1'-0"

SHEAR WALL SCHEDULE

5/16 PLYWOOD, ONE SIDE, 6d COMMON @ 2", BLOCKED

I.D.# DESCRIPTION

REFER TO COLUMN
SCHEDULE ON SHT SB101

— JOIST BRNG/ TOP OF BM @ EL. 112'-10"

HSS 8x6x5/16 BM

SUPPORTING ROOF

FRAMING ABOVE

HSS 8x6x5/16 BM

MECHANICAL DUCT
PENETRATION THROUGH
WALL (COORD W/ MECH)

12" CMU WALL

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HSS 8x6x5/16 BM

—JOIST BRNG/ TOP OF BM @ EL. 112'-10"

12" CMU WALL

12" CMU WALL

5/2 C

HSS 8x6x5/16 BM

(2) 3.5"x20" LVL

BEARING WALL

12" CMU WALL

REFER TO DETAIL ON SHT S-003

W616 -

W416 CHASE WALL

W616

ABOVE DOORS

ATTACH PARTITIONS TO TRUSSES—ABOVE USING SIMPSON STRONG

**─** W616

—HEADER EXTENDS TO

W416 TYPICAL AT ALL INTERIOR WOOD WALLS (UNO)

FLOOR FRAMING PLAN

CORNERS

DRIVE SDPW DEFLECTOR SCREWS (OR EQUAL) TYPICAL

SW1

W616

TYPICAL AT ALL EXTERIOR WOOD WALLS

H210

H210

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SF101

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SF1

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**ABBREVIATIONS** 

SEE LEGENDS ON A-002 FOR ACCESSORY

ABBREVIATIONS

CONCU

CONN

CONST

CONT

CONV

CORR

CPT

CRK

CST

CTR

CUH CW

CONTR

COORD

CONSULT

SEALER

CONNECTION

CONSULTANT

CONTINUOUS

CONTRACTOR

CONVECTOR

COORDINATE

CORRIDOR

CAST STONE

CERAMIC TILE

COLD WATER

CABINET UNIT HEATER

CARPET

CENTER

CORK

CONSTRUCTION

CONCRETE - UNFINISHED

ABBREVIATIONS

SEE LEGENDS ON A-002 FOR ACCESSORY

SEE LEGENDS ON A-002 FOR ACCESSORY

ABBREVIATIONS

VWC

WEST WITH W/O WITHOUT WC WD WOOD WDB WOOD BASE WDG

> WIDE FLANGE WIRE GLASS WATERHEATER WATER PROOF WPF WPT **WORK POINT** WSP WEATHER STRIP WEIGHT

WATER WOOD VENEER WALL COVERING WELDED WIRE FABRIC

WWF YARD

WVW

DRAWING SYMBOLS

DETAIL INDICATOR

SECTION DETAIL

**BUILDING SECTION** 

INDICATOR

INDICATOR

INDICATOR

INDICATOR

60"DIA WHEELCHAIR

T-SHAPED WHEELCHAIR

TURNING SPACE

ICC A117.1 - 304.3

TURNING SPACE

ICC A117.1 - 304.3

CLEAR FLOOR SPACE

INTERNATIONAL SYMBOL

ICC A117.1 - 305.3

OF ACCESSIBILITY

ICC A117.1 - 703.6.3.1

**VIEW REFERENCES** 

(X-XXX)

X-XXX

\x-xxx/

\x-xxx丿

X-XXX

**ACCESSIBILITY** 

SHEET KEYNOTE INDICATOR 00 00 00.A REFERENCE KEYNOTE INDICATOR VISUAL DISPLAY BOARD INDICATOR SMALL DETAIL INDICATOR -CB = CHALKBOARD MB = MARKER BOARD

NOTES & ANNOTATIONS

INDICATES EXISTING

WINDOW / LOUVER INDICATOR

TB = TACK BOARD TS = TACK STRIP -LENGTH ACCESSORY, FURNITURE, FIXTURE (TC-1) AND EQUIPMENT INDICATOR (REFER TO A-002 & A-604) WALL SECTION INDICATOR REVISION INDICATOR ROOM NAME ROOM IDENTIFIER

-ROOM NUMBER 150 SF 🚤 -ROOM AREA 1,254 —OCC. COUNT WALL TYPE INDICATOR

EXTERIOR ELEVATION

(REFER TO SCHEDULE: A-602) DOOR INDICATOR (REFER TO SCHEDULE: A-601) INTERIOR ELEVATION

GLAZING INDICATOR (REFER TO PROJECT MANUAL) GLAZING MODIFIER

(REFER TO A-603) BUILDING LINE MATERIAL INDICATOR (REFER TO SCHEDULE: A-605) SEPARATION INDICATOR SIGNAGE INDICATOR (REFER TO SCHEDULE ↓ EXISTING → NORTH INDICATOR SEPARATION LINE OF NEW -PLAN NORTH -TRUE NORTH

CONSTRUCTION FROM EXISTING, OR SEPARATION OF DIFFERENT MATERIALS FROM EACH OTHER PROPERTY LINE INDICATOR — —P — N/S 90.00 E/W· —P — -EXISTING PROPERTY LINE CORNER INDICATOR -PROPOSED PROPERTY LINE CORNER INDICATOR

BUILDING ELEMENTS

NEW CONSTRUCTION

EXISTING TO REMAIN

DOORS

**INDICATOR LINES** 

SEE 1 / A101

MATCHLINE

မ— – —မ CENTER LINE

LEVEL ELEVATION MARK

MATCHLINE\_

EXISTING GRID LINE

PROPOSED GRID LINE

EXISTING TO BE REMOVED

-CLEARANCE LINES

NEW MASONRY CONSTRUCTION

MATERIAL SYMBOL LEGEND RIGID INSULATION

4x4 TILE CONCRETE WOOD BOARD CONCRETE MASONRY **ROUGH WOOD** 8x8 TILE SIDING UNITS NARROW WOOD BOARD **FACE BRICK** 12x12 TILE SIDING WIDE EARTH / COMPACT FILL PLYWOOD ACOUSTICAL TILE BATT INSULATION GYPSUM WALL BOARD

O

00-



MO

MTD

MTL

MTR

NFPA

NO

NOM

NTS

GAL

GB

GEN

GR

GRD

GRH

GYP

GYP BD

GALV

GALLON

GALVANIZED

GRAB BAR

GENERAL

GLASS

**GRADE** 

GROUND

GYPSUM

GYPSUM BOARD

GRAVITY RELEASE HOOD

MASONRY OPENING

METER (UTILITIES)

NOT APPLICABLE

ASSOCIATION

NOT TO SCALE

NOT IN CONTRACT

NATIONAL FIRE PROTECTION

MOUNTED

METAL

NORTH

NO BASE

NUMBER

NOMINAL

# **GENERAL NOTES - ARCHITECTURAL**

- DO NOT SCALE DRAWINGS. IF DIMENSIONS CANNOT BE DETERMINED OR DOCUMENTS ARE IN CONFLICT, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO CONTINUATION OF WORK ALL WALL DIMENSIONS ARE TO FACE OF STUD OR MASONRY, UNO.
- FIELD VERIFY ALL PROJECT CONDITIONS PRIOR TO THE START OF WORK, AND AS NEEDED THROUGHOUT THE DURATION OF CONSTRUCTION. BRING ANY DISCREPANCIES WHICH MAY SIGNIFICANTLY AFFECT NEW CONSTRUCTION WORK TO THE ATTENTION OF THE ARCHITECT FOR REVIEW WHERE NEW WALL CONSTRUCTION ABUTS WINDOW MULLION(S) ON PLANS, CENTER WALL ON CENTER LINE OF MULLION, UNO
- TYPICAL CONDITIONS ARE NOTED ONLY ONCE COORDINATE OPENINGS AND PENETRATIONS BETWEEN TRADES FLOOR LEVELS BETWEEN ADJACENT MATERIALS MUST NOT EXCEED 1/4". PROVIDE APPROPRIATE TRANSITION STRIPS OR LEVEL FLOORS AS REQUIRED

INFORMATION SHOWN IN ONE LOCATION ON THE DRAWINGS IS THE SAME AS IF SHOWN ON MULTIPLE LOCATIONS

- FLOORS MUST BE MADE LEVEL TO NO LESS THAN 1/8" IN 10', USING A 10' STRAIGHTEDGE PROVIDE REQUIRED FILLERS, SEALANT, OR TRIM AS NECESSARY TO CLOSE GAPS BETWEEN ADJACENT MATERIALS . WALLS SCHEDULED TO RECEIVE PAINT ARE TO BE PAINTED TO 6" ABOVE CEILING HEIGHT
- 12. REFER TO FINISH PLANS FOR ROOM FINISHES

ABBREVIATIONS

SEE LEGENDS ON A-002 FOR ACCESSORY

WATER CLOSET WOOD PANELING WINDOW WATER PROOF FLOORING

HARDWOOD GYMNASIUM FLOORING

VINYL WALL COVERING

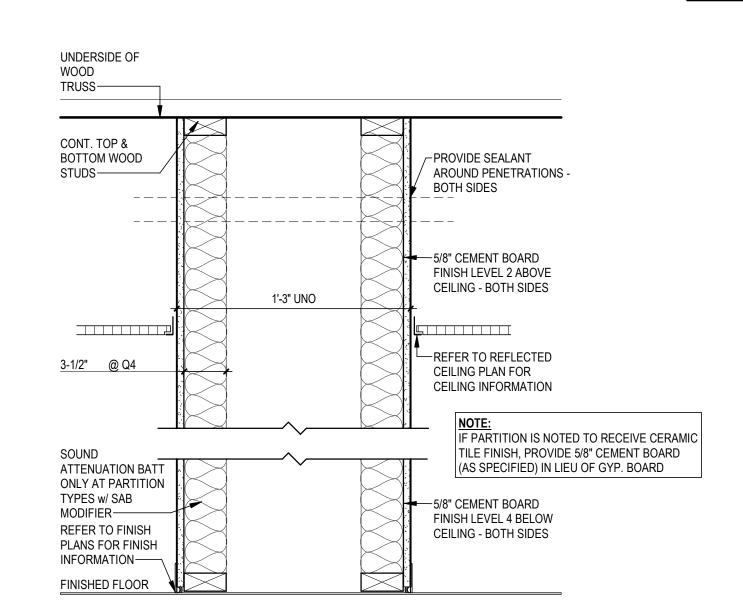
SEE LEGENDS ON A-002 FOR ACCESSORY ABBREVIATIONS

**ABBREVIATIONS** 

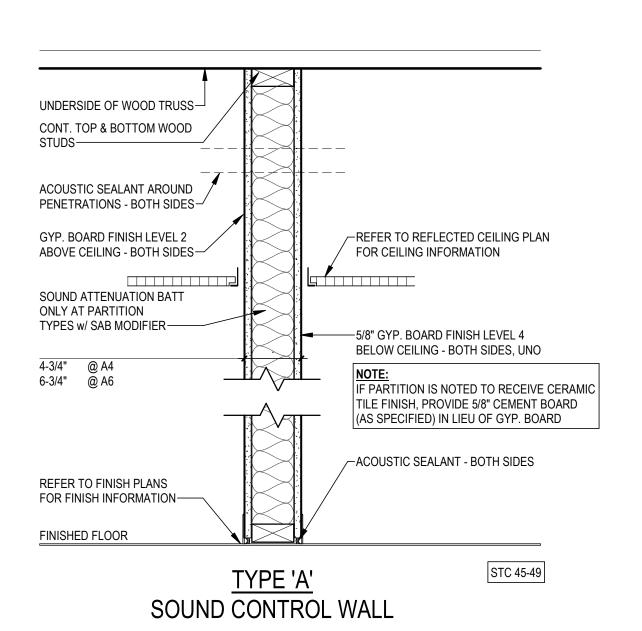
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- USE PARTITION TYPE 'A4.A' UNO
- FOR CLARITY, PARTITION TYPES DO NOT INDICATE BASE AND FLOOR FINISHES. REFER TO ROOM PARTITIONS WITH TYPE INDICATORS ON BOTH SIDES OF PARTITION SHALL BE CONSTRUCTED TO
- SATISFY BOTH CONDITIONS INDICATED APPLY A CONTINUOUS BEAD OF ACOUSTICAL SEALANT AROUND ALL ELECTRICAL WALL BOXES FOR NON-FIRE-RATED PARTITIONS, APPLY ACOUSTICAL SEALANT AROUND PENETRATIONS ABOVE
- THE CEILING IN FULL-HEIGHT PARTITIONS, UNO PROVIDE MOISTURE RESISTANT G.W.B. ON ALL TOILET ROOM WET WALLS, JANITOR CLOSET WALLS AND MECHANICAL ROOM WALLS, UNO
- PROVIDE CONTROL JOINTS AT 30' MAX IN PARTITIONS. LOCATE SYMMETRICALLY OR EVENLY SPACED ON WALLS IF NOT SHOWN OTHERWISE. REVIEW PROPOSED LOCATIONS WITH ARCHITECT
- PRIOR TO INSTALLATION REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION RE: WOOD STUD REQUIREMENTS
- PARTITION TYPES KEY PARTITION TYPE-PARTITION STRUCTURE WIDTH AS NOTED BELOW-INSTALL SOUND ATTENUATION BATT (SAB)-NUMERIC WOOD STUD CHARACTER 3-1/2" 5-1/2"



STC 52



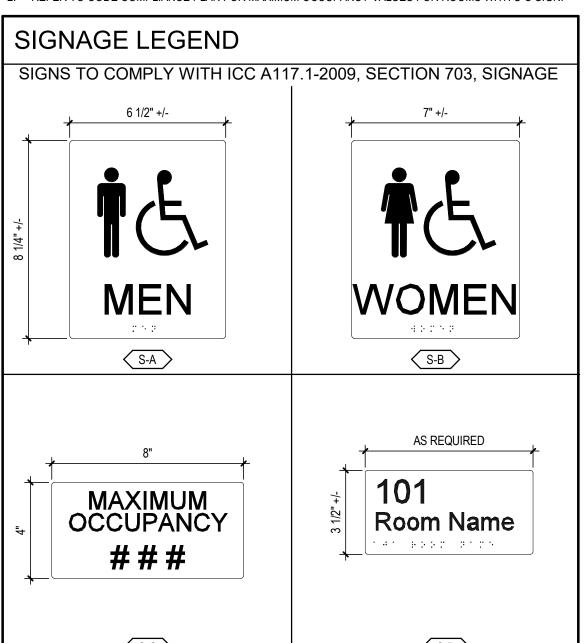
TYPE 'Q'

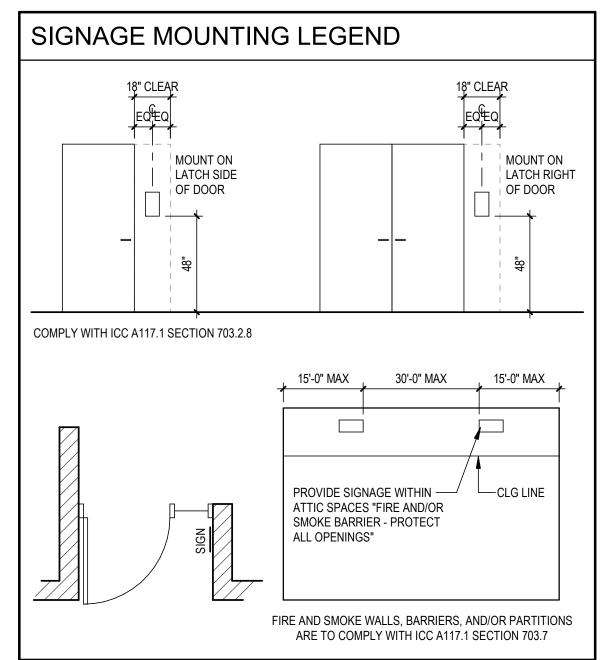
PARTITION CHASE WALL

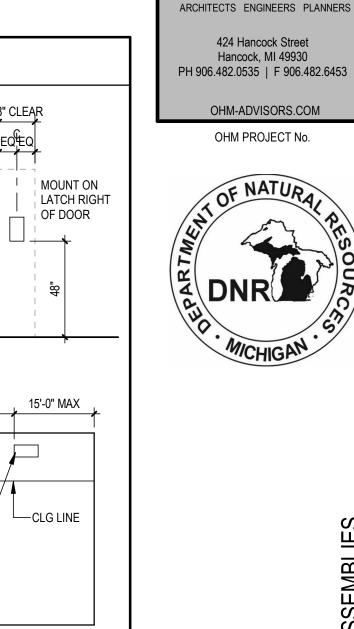
**GENERAL SIGNAGE NOTES:** 

REFER TO AF101 FOR SIGNAGE LOCATIONS

REFER TO CODE COMPLIANCE PLAN FOR MAXIMUM OCCUPANCY VALUES FOR ROOMS WITH S-C SIGN.



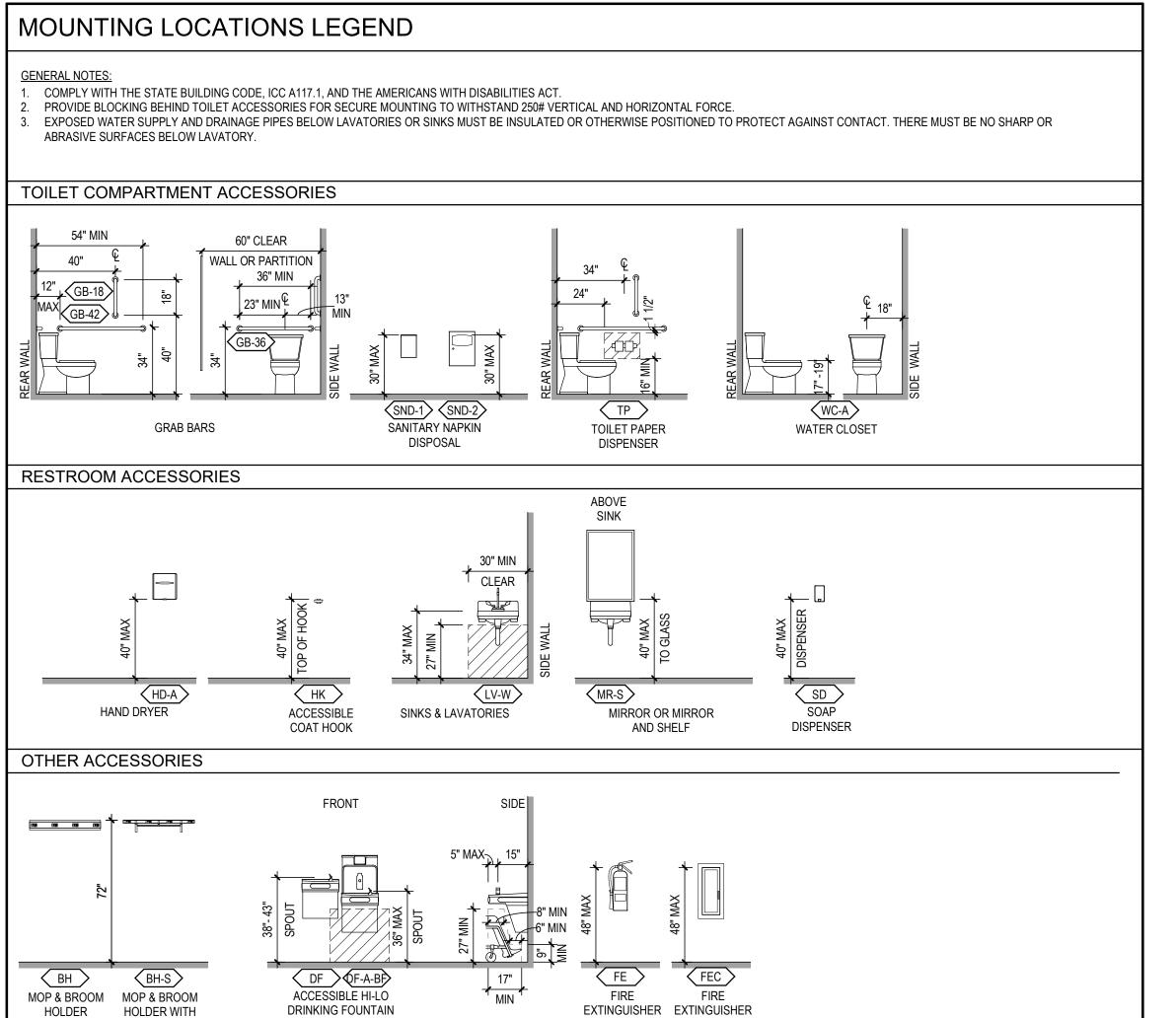






A-002

 $\left\langle DF\right\rangle \left\langle F-A-BF\right\rangle$ ACCESSIBLE HI-LO FIRE FIRE DRINKING FOUNTAIN EXTINGUISHER EXTINGUISHER **HOLDER WITH** SHELF CABINET



DCMU DECORATIVE CONCRETE MASONRY UNIT

EFCS EPOXY FLOOR COATING SYSTEM

EXISTING (NO NEW FINISH)

CPT

CT

EX

LNM

TER

TREP

CEILINGS

MOLDING BASED ON BOLYARD LUMBER SUPPLY PROFILE NUMBER:

WWW.BOLYARDLUMBER.COM

BASE MOLDING: 5 1/4" COVE BASE BL28 CHAIR MOLDING: 3 3/4" CHAIR RAIL BL370

EX

UF

CARPET

LINOLEUM

NO BASE

STONE

RESILIENT BASE

SHEET RUBBER

SHEET VINYL

UNFINISHED

VENTED BASE

ACT ACOUSTICAL CEILING TILE

PGB PAINTED GYPSUM BOARD

UNFINISHED

EXISTING (NO NEW FINISH)

VINYL BASE

WDB WOOD BASE

TROWELED EPOXY

TERRAZZO

CERAMIC TILE

COLORED

SEALER

CORK

CPT CARPET

CRK

EX

HWD

LNM

RFT

RST

TER

TREP

VCT

CONCP CONCRETE - PAINTED

CONCU CONCRETE - UNFINISHED

CERAMIC TILE

LINOLEUM

STONE SHEET VINYL

TERRAZZO

UNFINISHED

EFCS EPOXY FLOOR COATING SYSTEM

HARDWOOD FLOORING

LUXURY VINYL TILE

RUBBER FLOOR TILE

SHEET RUBBER

TROWELED EPOXY

WPF WATER PROOF FLOORING

VINYL COMPOSITE TILE

HARDWOOD GYMNASIUM FLOORING

EXISTING (NO NEW FINISH)

RUBBER STAIR TREAD AND RISER SYSTEM

CONCD CONCRETE - DYE STAINED GROUND AND

CONCS CONCRETE - WITH APPLIED SURFACE

BRK BRICK CST CAST STONE

CT CERAMIC TILE DCMU DECORATIVE CONCRETE MASONRY UNIT

DEC DRY ERASE COATING EPT EPOXY PAINT EX EXISTING (NO NEW FINISH) FWC FABRIC WALL COVERING PT PAINT

PWP PROTECTIVE WALL PANEL ST STONE UF UNFINISHED VWC VINYL WALL COVERING WDP WOOD PANELING

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**GENERAL NOTES - FINISH PLANS** 

REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS, AND FINISH INFORMATION. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE

DIFFERENT TILE THICKNESSES. PROVIDE ANTI-FRACTURE MEMBRANE AT ALL THINSET CERAMIC FLOOR TILE LOCATIONS, UNLESS

OTHERWISE NOTED. PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM.

ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC.) AND ELECTRICAL EQUIPMENT (PANELS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS. PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS AT

VERTICAL AND HORIZONTAL APPLICATIONS. REFER TO PAINTING SPECIFICATIONS FOR PAINT SCHEDULE

SHEET KEYNOTES - FINISH PLAN

01 WAINSCOT, CHAIR RAIL, REFER TO DETAIL 2/AF101, 02 TILE WET WALL, FULL HEIGHT

03 PT-1 TO BAFFLE HEIGHT, PT-4 ABOVE WHERE EXPOSED TO VIEW, UNO 04 PROVIDE TILE FULL HEIGHT BEHIND DRINKING FOUNTAIN. 05 RUBBER BASE AT CABINETS 06 RESINOUS FLOOR, TO EDGE OF SHOOTING BOOTHS

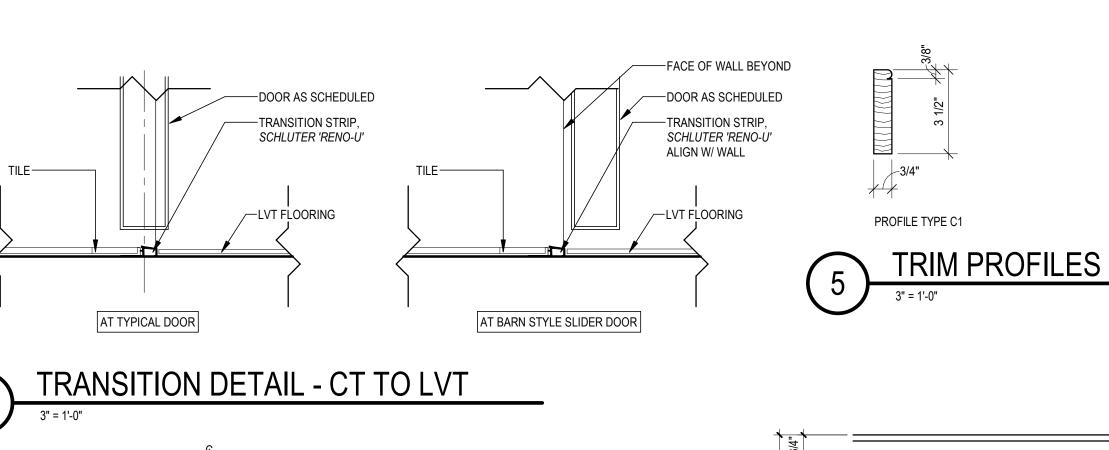
FINISH PLAN LEGEND

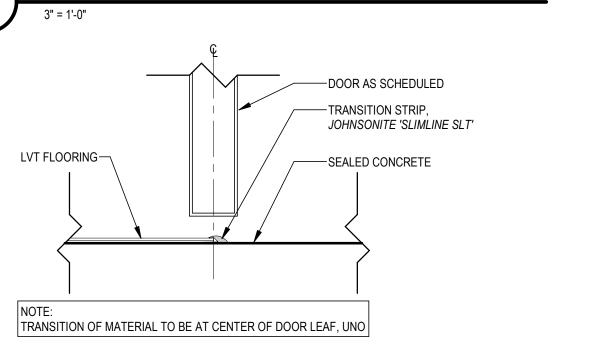
ROOM FINISH TAGS
ROOM NAME AND NUMBER PLUS <u>FINISH LEGEND</u> FINISH LEGEND IS GENERAL. GENERAL ROOM FINISH INFORMATION. REFER TO SPECIFICATIONS FOR FINISH TAGS SHALL APPLY TO ALL LIKE SPECIFIC FINISH INFORMATION. MATERIALS WITHIN A ROOM (UNO). MULTIPLE FINISH TYPES ARE DENOTED BY NUMBER FOLLOWING ABBREVIATION. WALL FINISH (SEE ABOVE) 

▶ PT-2 BASE (SEE ABOVE)-FLOOR FINISH (SEE ABOVE) - CPT DENOTES PATTERN DETAIL-

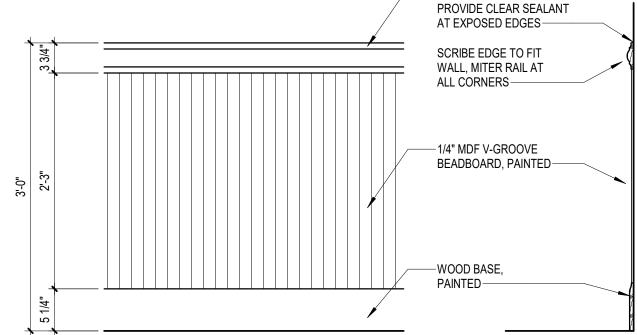
REFER TO SHEET KEYNOTES ABOVE

PL1 PLASTIC LAMINATE TYPE / COLOR (TAG APPLIES TO ALL CABINETS AND/OR COUNTERTOPS WITHIN THAT SPACE, UNO)



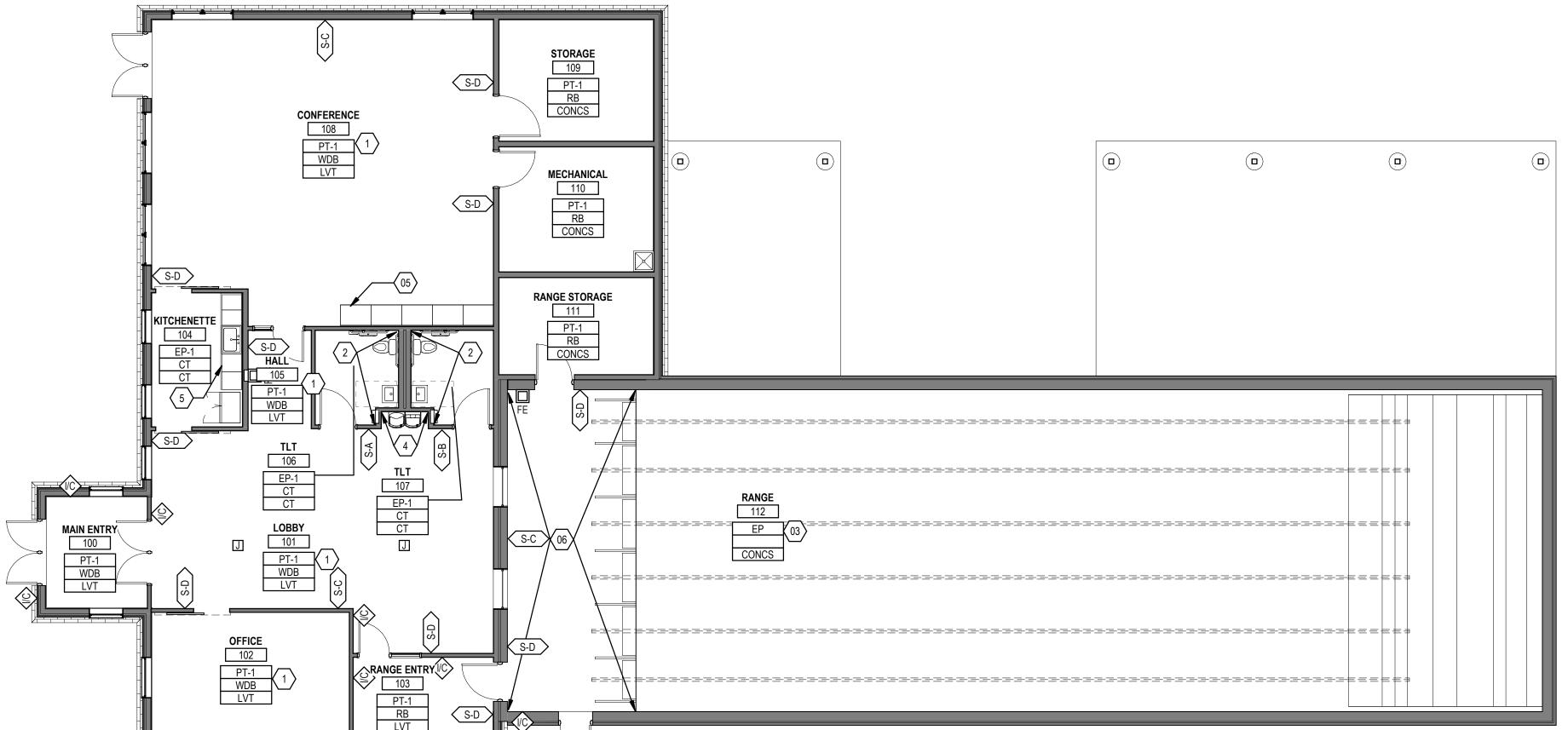






-CHAIR RAIL, PAINTED

MOLDING DETAILS



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 $\overline{\phantom{a}}$ 

SOFFIT VENTILATION: 56 LINEAR FOOT

(25.92 SQ/IN PER FOOT) 1,451 SQ. IN

RIDGE VENTILATION: 15 LINEAR FOOT

54% FREE AREA SOFFIT VENT (25.92 SQ/IN PER FOOT) 388 SQ. IN

SOFFIT VENTILATION: 22 LINEAR FOOT

54% FREE AREA SOFFIT VENT (25.92 SQ/IN PER FOOT) 570 SQ. IN

ROOF TYPE 1

54% FREE AREA SOFFIT VENT

ROOF TYPE 3

VENTILATION REQUIREMENTS FOR CLUBHOUSE ROOF/ATTIC SPACE 2,950 SF / 300 = 9.80 SF = 1,412 SQUARE INCHES

SOFFIT VENTING:

SOFFIT VENTILATION: 70 LINEAR FOOT

ATTIC ROOF AREA = 2,950 SF NO DRAFTSTOPPING DIVISION REQUIRED < 3,000 SF

PIPE VENT,—  $\_$ RE: MECHÁNICAL=

ROOF EXHAUST,

REF: MECHANICAL

54% FREE AREA SOFFIT VENT (25.92 SQ/IN PER FOOT) 1,814 SQ. IN

LOW END REQUIRED: 706 SQUARE INCHES PROVIDED: 1,451 SQ. INCHES + 570 SQ. INCHES = 2,021 SQ. INCHES

HIGH END/RIDGE VENTS: REQUIRED: 706 SQUARE INCHES PROVIDED: 1,814 SQ. INCHES + 388 SQ. INCHES = 2,201 SQ. INCHES

## **ROOF TYPES**

ROOF TYPE 1 STANDING SEAM METAL ROOF

SLIP SHEET
UNDERLAYMENT PLYWOOD SHEATHING AIR SPACE

SLIP SHEET UNDERLAYMENT PLYWOOD SHEATHING AIR SPACE RIGID INSULATION (R-35) VAPOR RETARDER SHEATHING

WOOD JOISTS ROOF TYPE 4 STANDING SEAM METAL ROOF SLIP SHEET UNDERLAYMENT SHEATHING

## GENERAL NOTES - ROOF PLAN

- COORDINATE PENETRATIONS AND ROOF MOUNTED EQUIPMENT WITH MECHANICAL, PLUMBING, ELECTRICAL AND STRUCTURAL DRAWINGS
- ALL ROOF PENETRATIONS SHALL BE SEALED WITH APPROPRIATE MATERIAL ALL EXPOSED METAL ELEMENTS TO BE PRE-FINISHED. COLOR AS SELECTED BY ARCHITECT REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON FINISHES & INSTALLATION

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ROOF TYPE 4

SLIP SHEET

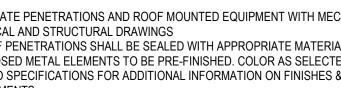
RIGID INSULATION (R-35)

VAPOR RETARDER SHEATHING METAL DECK STEEL JOISTS

STEEL JOISTS

 $\bigcirc$ D

ROOF TYPE 4



A-311

 $\left( \mathsf{C}\right)$ 

-SHINGLED SIDING

(TYP UNO)

-9.25" TRIM BOARD AT

SOFFITS (TYP)

-LAP SIDING

TRIM BOARD AT OPENINGS. 7.25" AT HEAD, 3.5" AT JAMBS

A-201



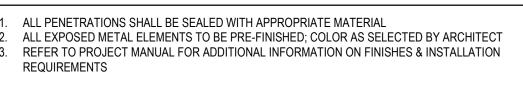
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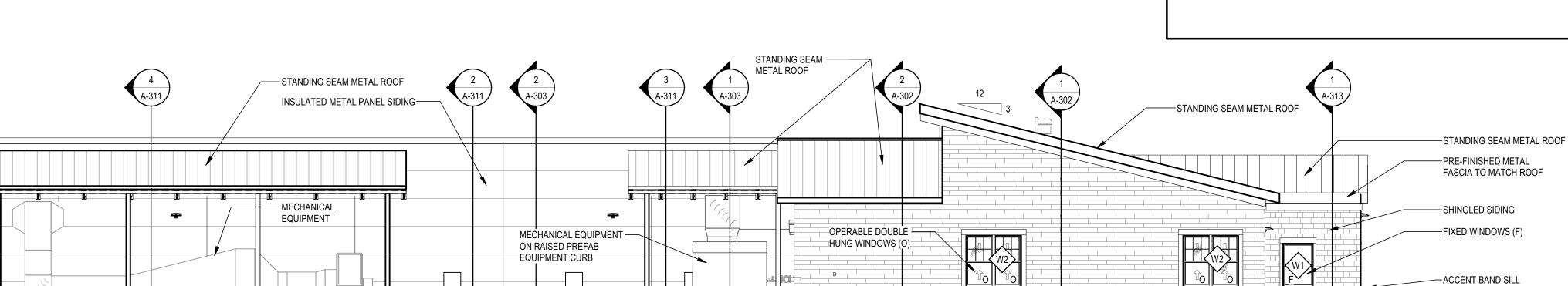
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—DECORATIVE CMU VENEER

-RIDGE VENT



**GENERAL NOTES - ELEVATIONS** 



STANDING SEAM METAL ROOF ----

PRE-FINISHED METAL —— FASCIA TO MATCH ROOF

LAP SIDING-

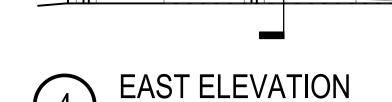
OPERABLE DOUBLE

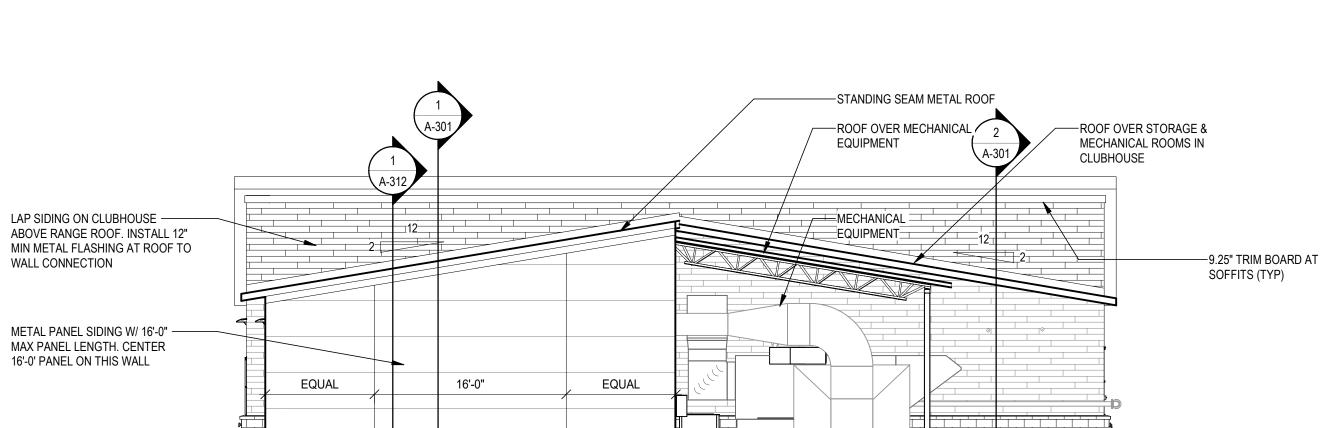
HUNG WINDOWS (O)

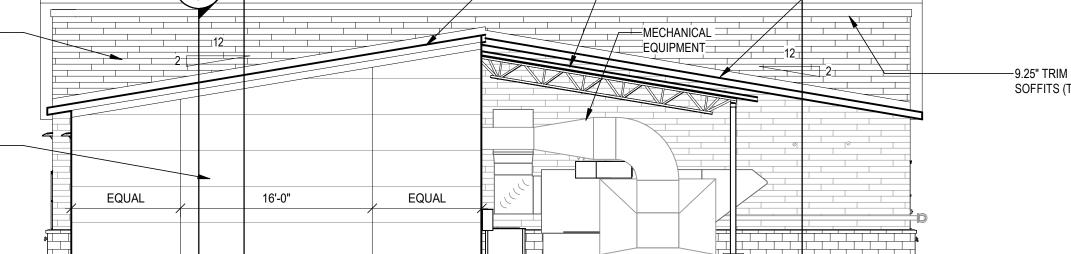
ACCENT BAND SILL-

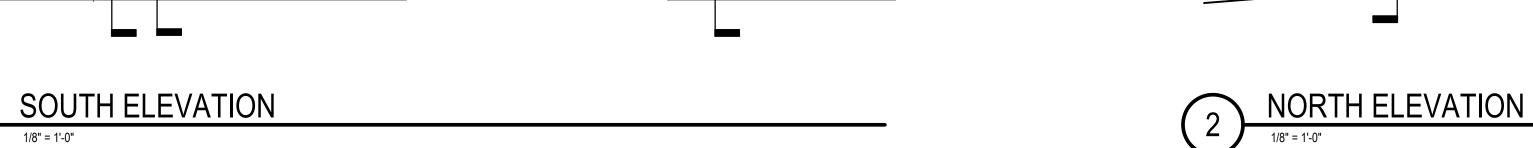
DECORATIVE CMU -

VENEER



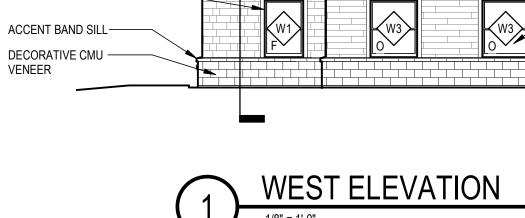






OPERABLE WINDOWS (O)

-RIDGE VENT PER PLANS



LAP SIDING ON -

CLUBHOUSE

RIDGE VENT PER PLANS-STANDING SEAM METAL ROOF-

PRE-FINISHED METAL —— FASCIA TO MATCH ROOF

VESTIBULE ONLY

FIXED WINDOWS (F)-

DECORATIVE CMU -

VENEER

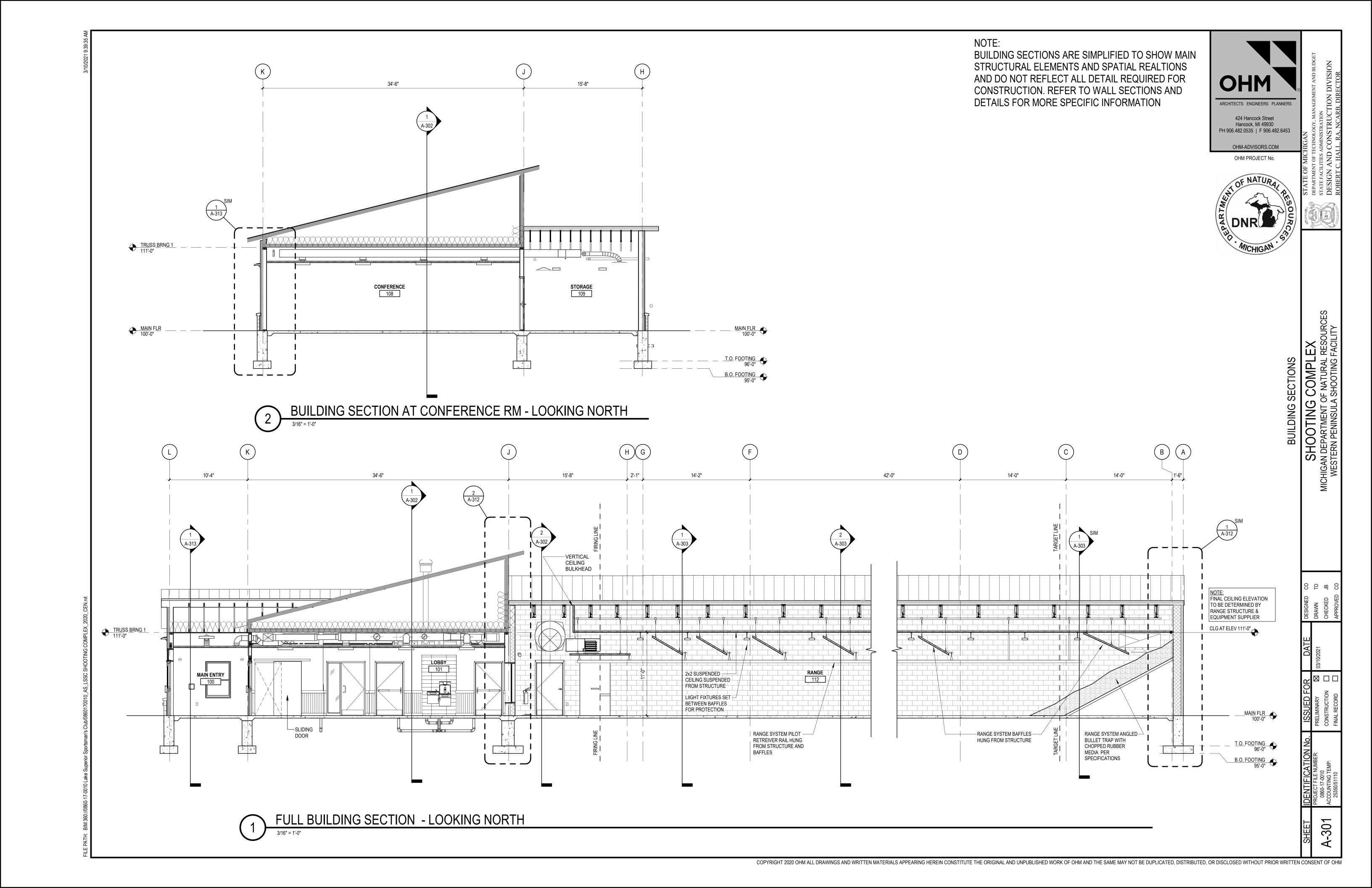
SHINGLE SIDING ON ENTRY -

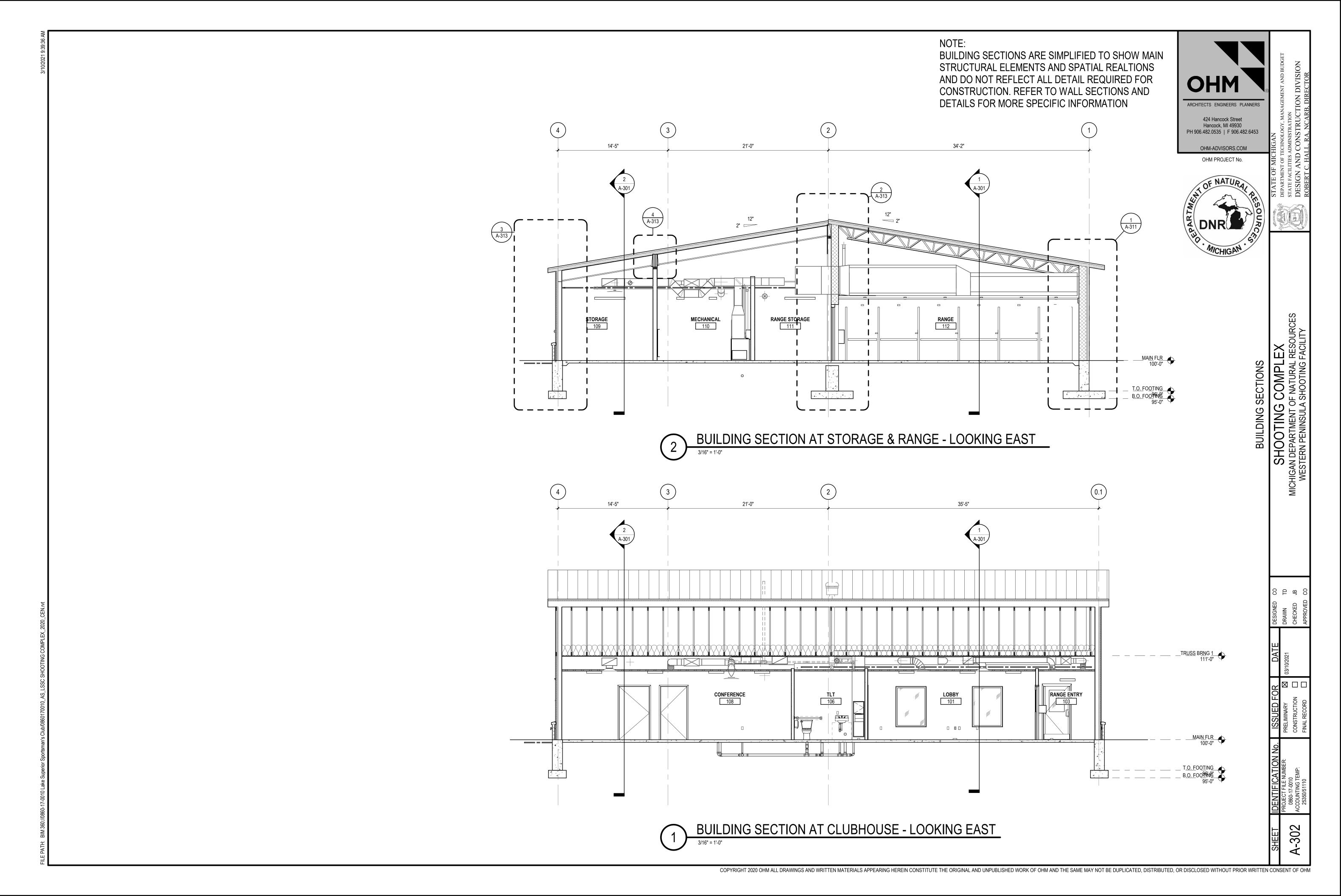
TRIM BOARD AT OPENINGS. 7.25" AT HEAD, 5.5" AT JAMBS AT WINDOWS W2 ONLY

METAL PANEL SIDING W/ 16'-0"
MAX PANEL LENGTH. START AT
CORNER WITH LENGTH

8'-0"

-INSULATED METAL PANEL SIDING

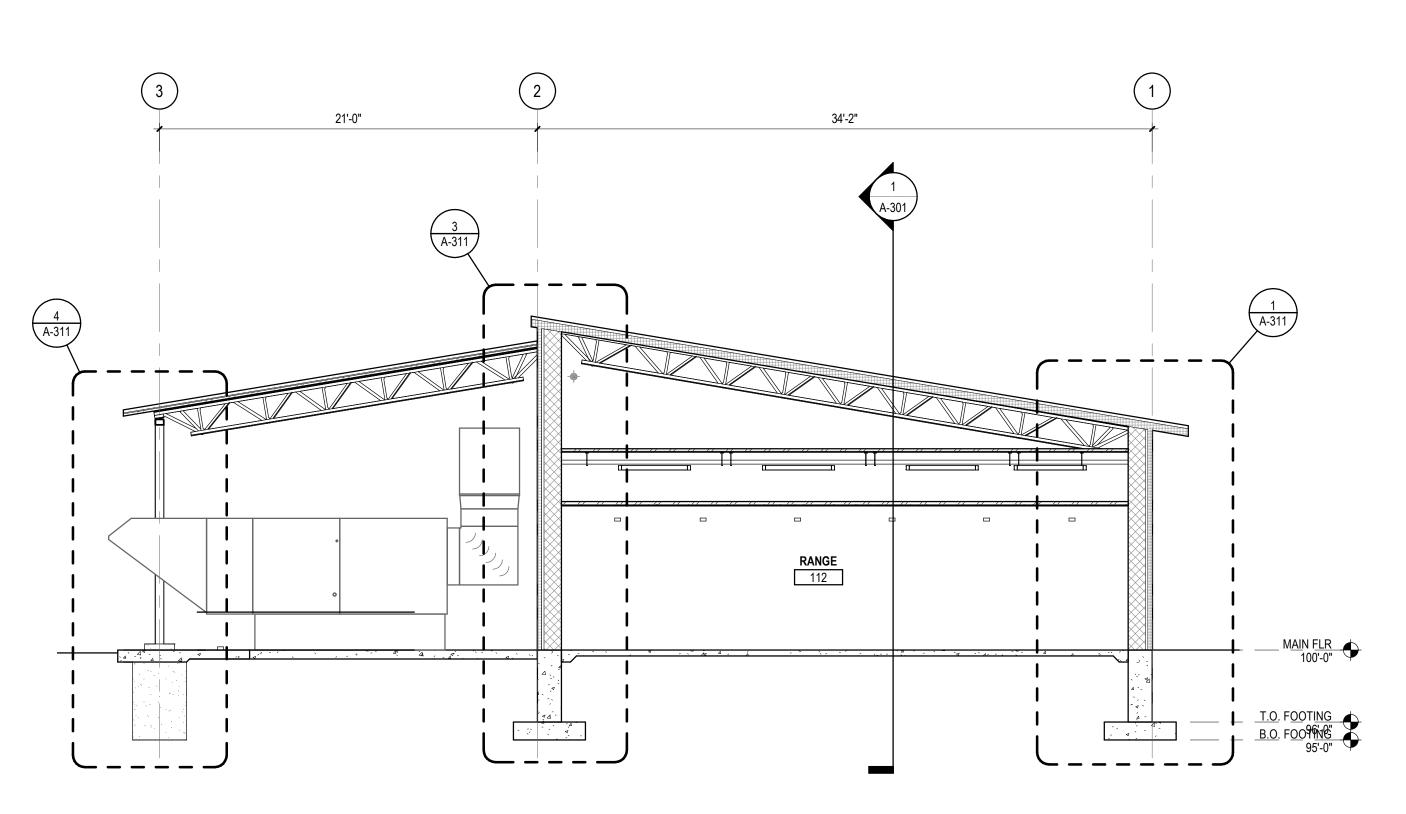




BUILDING SECTION AT RANGE - LOOKING EAST
3/16" = 1'-0"

BUILDING SECTION - LOOKING EAST



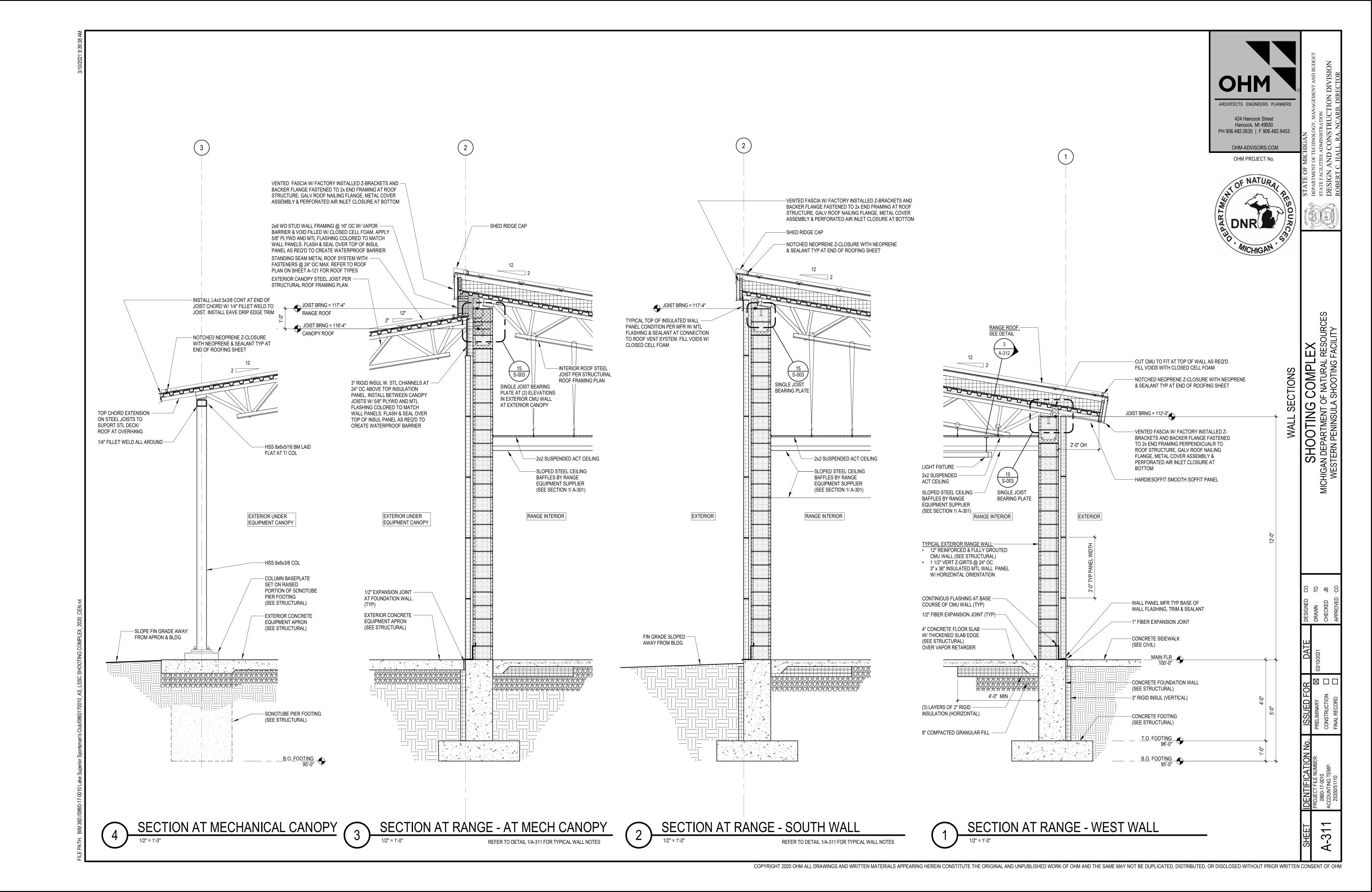


NOTE:
BUILDING SECTIONS ARE SIMPLIFIED TO SHOW MAIN
STRUCTURAL ELEMENTS AND SPATIAL REALTIONS

AND DO NOT REFLECT ALL DETAIL REQUIRED FOR CONSTRUCTION. REFER TO WALL SECTIONS AND

DETAILS FOR MORE SPECIFIC INFORMATION

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—SLIP SHEET

—AIR GAP (2 3/4")

FULLY ADHERED,

-VAPER RETARDER

6 1/2" RIGID BOARD INSULATION

STAGGERED PANEL JOINTS

-5/8" PLYWOOD SHEATHING (SEE STRUCTURAL)

−2x10 @ 32" O.C. TYP,

24" OC IN DRIFT REGION (SEE SHT.

S-001)

WITHIN 5 '-0" OF EAVE

— 5/8" PLYWOOD SHEATHING (SEE STRUCTURAL)

1 1/2" METAL DECK (SEE STRUCTURAL)

-ROOF FRAMING (SEE STRUCTURAL)

---#12 SELF-TAPPING OR EQUIVALENT (4.5" LONG AT 45 DEG

INTO METAL DECK @ 12" OC STAGGÈRED OPP SIDES



-EXTERIOR WALL RANGE ROOF: \_(EXTERIOR TO INTERIOR)

WATER RESISITVE BARRIER 5/8" PLYWOOD SHEATHING

-ROOF VAPOR RETARDER

TWO VAPOR RETARDERS

FACE OF WALL

1X FURRING

SIDING (SEE ELEVATIONS FOR TYPE)

2x6 @ 16" OC WOOD STUD FRAMING BATT INSULATION, AS INDICATED

-THROUGH WALL METAL FLASHING, EXPOSED FINISH TO MATCH SIDING COLOR

TAPE AND SEAL CONNECTION BETWEEN

-PROVIDE VAPOR RETARDER VERTICAL

-TAPE AND SEAL CONNECTION BETWEEN WALL VAPOR RETARDER AND PAPER FACED

INSULATION VAPOR RETARDER

ATTIC

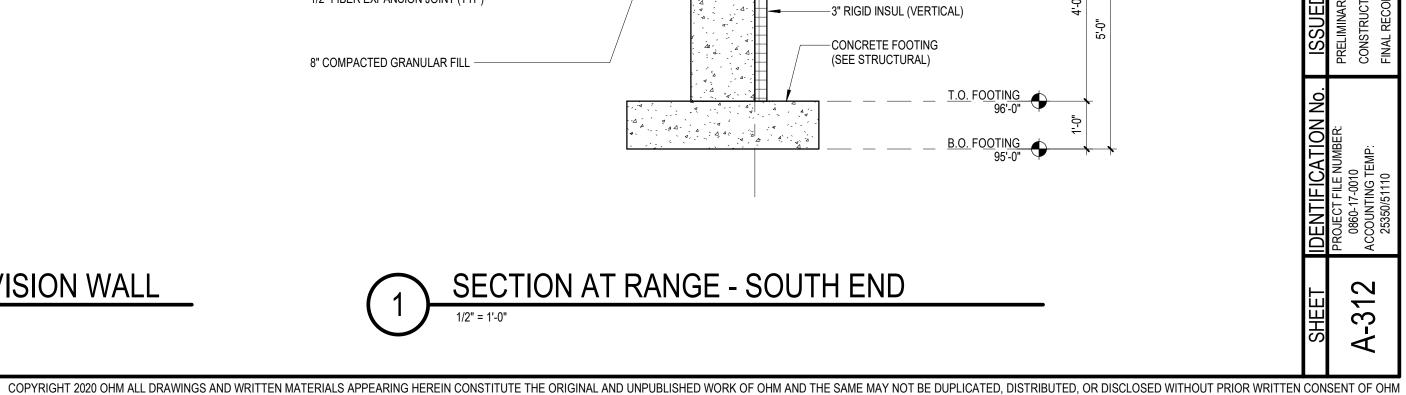
LOBBY

-STANDING SEAM METAL ROOF PANELS

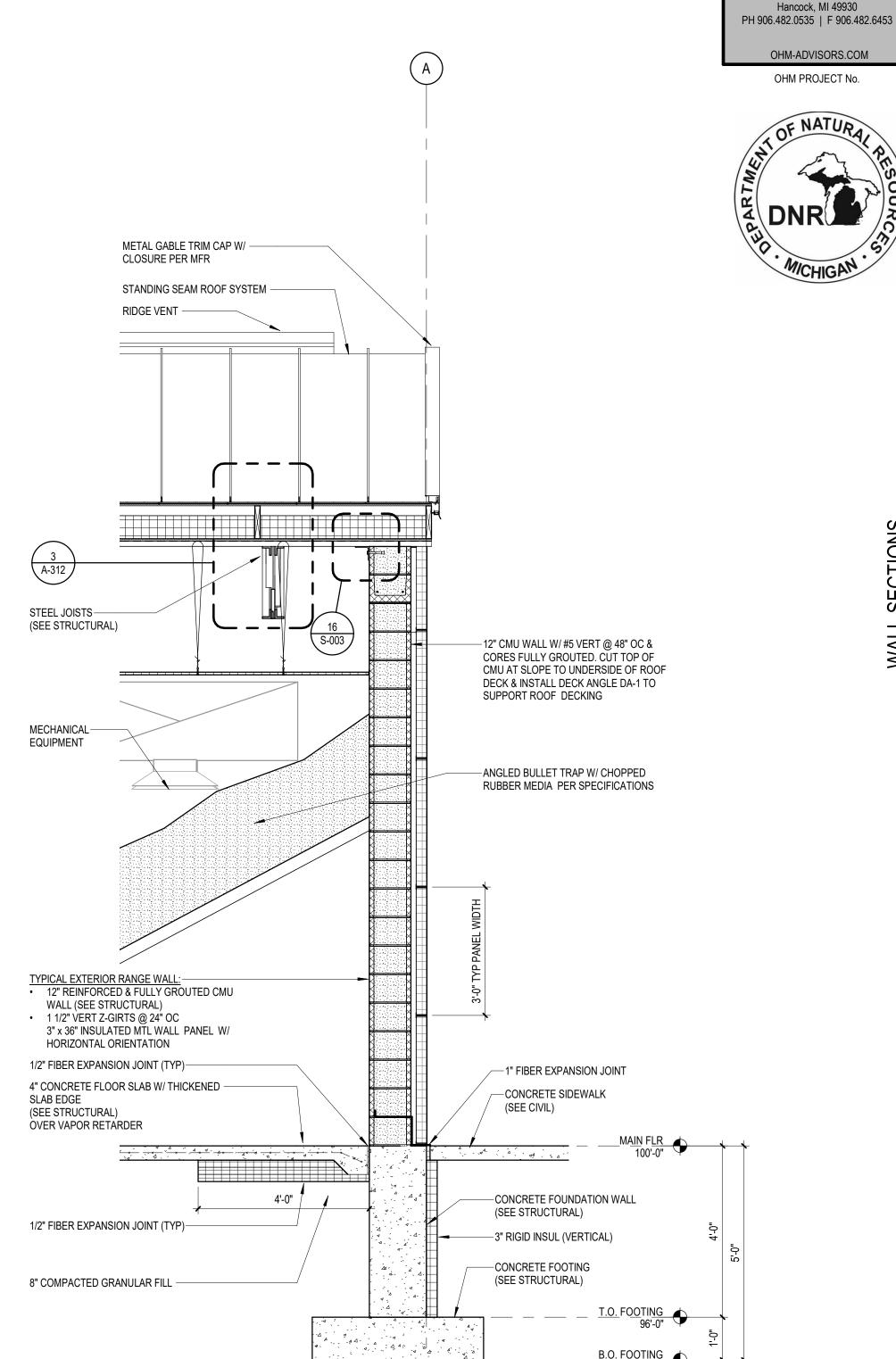
PANEL SEAM W/ ANCHOR CLIPS

FASTENED TO SHEATHING PER MFR

UNFACED BATT INSULATION—

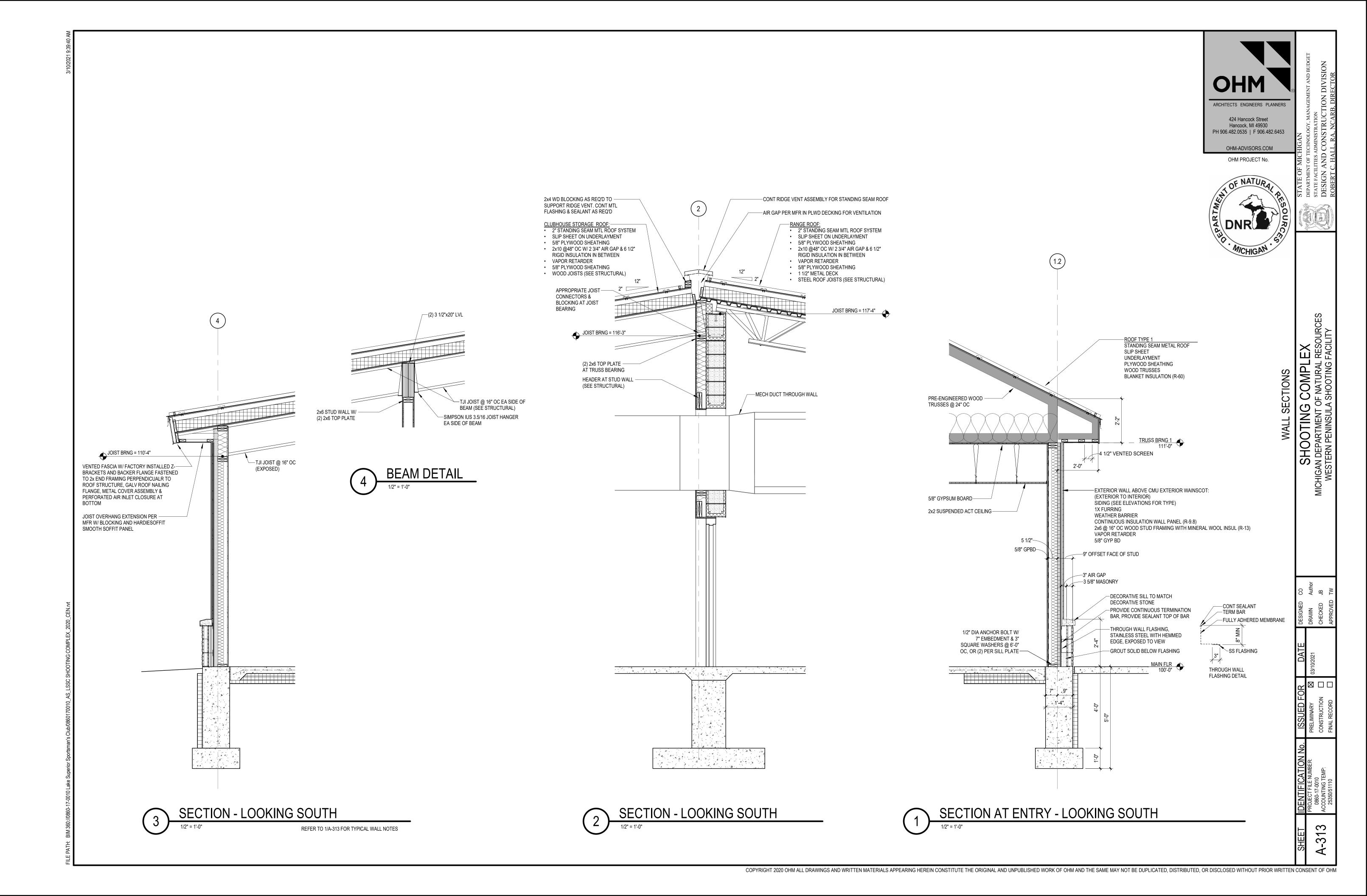


SECTION AT RANGE - SOUTH END



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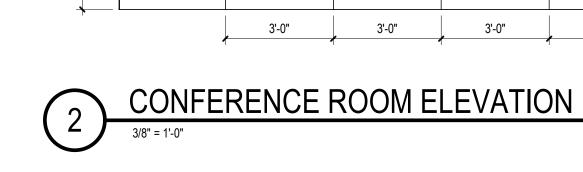
424 Hancock Street



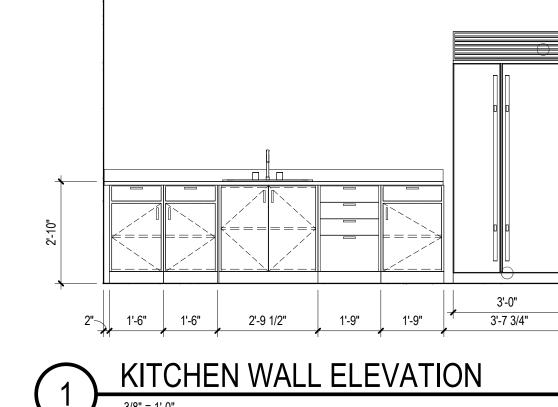
EQ

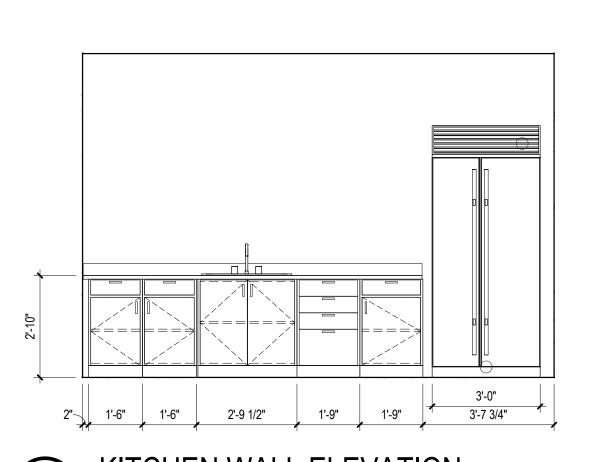
\_\_\_\_PT-2

WALL MOUNTED MONITOR



WALL MOUNTED MONITOR







CABINET WIDTHS TO BE BASED ON MODULE INCREMENTS OF 3" UNO. PROVIDE FILLER PANELS TO FINISH OUT TO SCRIBE CABINETS TO WALL.

PROVIDE FILLER PANELS AND TRIM WHERE EQUIPMENT IS LOCATED WITHIN CABINETS.

PROVIDE FINISHED END PANELS END RETURNS AT OPEN ENDED CABINETS, KNEE SPACES, AND ACCESSIBLE SINKS. PROVIDE 1 1/2" THICK FINISHED END PANEL AT FREE STANDING END OF ACCESSIBLE SINKS AND KNEE

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SPACES. WHEN FILLER PANELS ARE REQUIRED AT BOTH ENDS OF CASEWORK TERMINATION. BOTH FILLER PANELS SHALL BE EQUAL WIDTH.

PROVIDE WALL BRACKET SUPPORTS AT 36" OC MAX TO SUPPORT COUNTERTOP AT CONTINUOUS

PROVIDE END SPLASH WHEN COUNTERTOP IS ADJACENT TO WALL AT SIDES. PROVIDE HOLES FOR GROMMETS IN COUNTERTOPS AND AT THE FOLLOWING LOCATIONS: A. 1 EACH WIRE ACCESS HOLE WITH GROMMET AT KNEE SPACE. B. 1 WIRE ACCESS HOLES WITH GROMMETS AT 38" OC FOR CONTINUOUS RUNS OF KNEE SPACE.

C. 1 WIRE ACCESS GROMMET BEHIND EACH KEYBOARD DRAWER. D. 1 COMPUTER PAPER SLOT GROMMET BEHIND EACH PRINTER. 10. PROVIDE ADJUSTABLE SHELVES IN CABINETS AT THE FOLLOWING LOCATIONS UNO ON ELEVATIONS A. BASE CABINET - 1 SHELF

B. FULL HEIGHT CABINET - 5 SHELVES, 1 FIXED C. WALL CABINET - 1 SHELF AT 24" HIGH, 2 SHELVES AT TALLER CABINETS D. NOTE: SHELVES TO BE 3/4" THICK FOR SPANS UP TO 32" AND 1" THICK FOR SPANS UP TO 36" 11. GLASS FRONTS TO BE 1/4" THICK CLEAR TEMPERED GLASS UNO. 12. PROVIDE AN APRON AT ALL KNEE SPACES 30" OR HIGHER UNO.

CASEWORK LEGEND

CASEWORK INDICATOR CABINET TYPE (SEE ABBREVIATIONS BELOW) WIDTH IN INCHES (TWO DIGITS)
 HEIGHT IN INCHES (TWO DIGITS)

		IN INCHES (TWO DIGITS) N INCHES (TWO DIGITS), IF [	DIFF FRO	M TYPICAI
		CONDITION (SEE ABBREVIA		
F	CABINE	<u>r types</u>	SPECIAL	CONDITIONS
	В	BASE CABINET	Α	ACCESSIBLE (SEE BELOW)
	BC	BASE BLIND CORNER	AP	APRON
	BT	BASE TRASH	E	FINISHED END PANEL
	С	BASE CORNER	F	SCRIBE FILLER
	DX-	DRAWER BASE (X = QTY.)	FD	FILE DRAWER
	LS	LAZY SUSAN CORNER	L	LOCKABLE
	M	MICROWAVE BASE	RF	REMOVEABLE FRONT
	0	OPEN BASE CABINET	SB	SUPPORT BRACKET
	c	CINIZ DACE	CD	CLIDDODT DANIEL

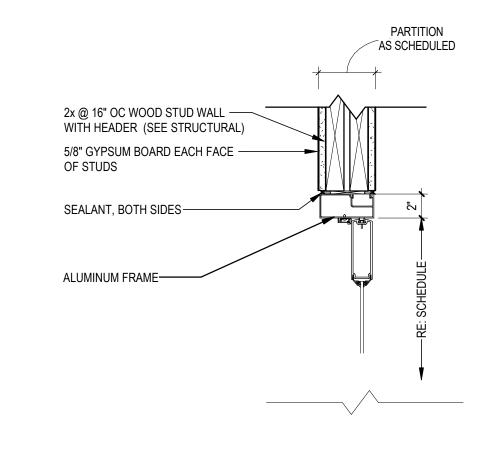
AWER ABLE FRONT T BRACKET SINK BASE TALL CABINET TALL CUSTOM WALL CABINET WALL CABINET WALL BLIND CORNER BASE CABINETS WALL CORNER

SUPPORT PANEL BOTTOM SHELF @ 48" MAX 34" COUNTER HEIGHT

A-45

WC OPEN WALL CABINET COPYRIGHT 2020 OHM ALL DRAWINGS AND WRITTEN MATERIALS APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF OHM AND THE SAME MAY NOT BE DUPLICATED, DISTRIBUTED, OR DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF OHM

3'-0"



\_2 1/8" 5 1/2"

ALUM FRAME ENTRY HEAD DETAIL

JAMB - ALUM - FRAMED - ABOVE CMU

METAL FLASHING W/ HEM, -

COLOR TO MATCH SIDING

SIDING ON 1X FURRING—

5/8" GYPSUM BOARD-

3 1/2" TRIM AT DOOR JAMB-

EXTERIOR

1X FURRING

—GYP BD CEILING

INTERIOR

TAPE WRAPPED END.

WEATHER BARRIER

-HEADER (SEE STRUCTURAL)

-SHIM AROUND OPENING, INFILL W/

PERIMETER SPRAY INSULATION

-ALUMINUM FRAME WITH TRANSOM

OVER ALUMINUM ENTRY DOOR

-ALUMINUM FRAME TRANSOM

RE: SCHEDULE ----

∠INSULATED GLAZING

-ALUMINUM FRAME

─SEALANT

—SHIM AROUND OPENING, INFILL W/

PERIMETER SPRAY INSULATION

FRAME JOINT TAPE WRAPPED END.

—2x6 @ 16" OC WOOD STUD WALL WITH (2) 2x6 JAMB

TRIM PROFILE TYPE C1,

SIDING PANELS ON

METAL FLASHING-

7 1/4" TRIM AT DOOR

METAL FLASHING -

SEALANT AND -BACKER ROD

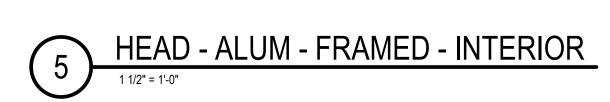
EXTERIOR

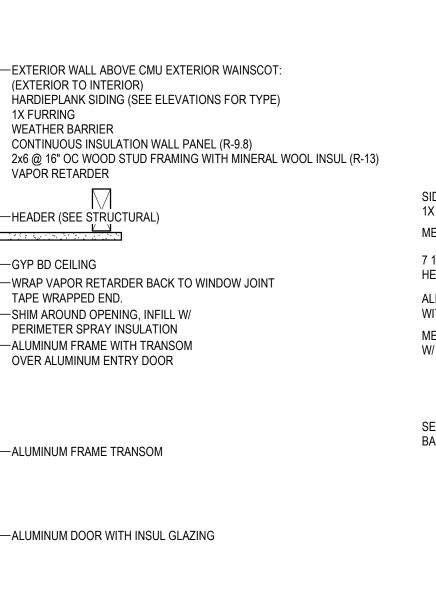
ALIGN FACE OF FRAME — WITH SHEATHING

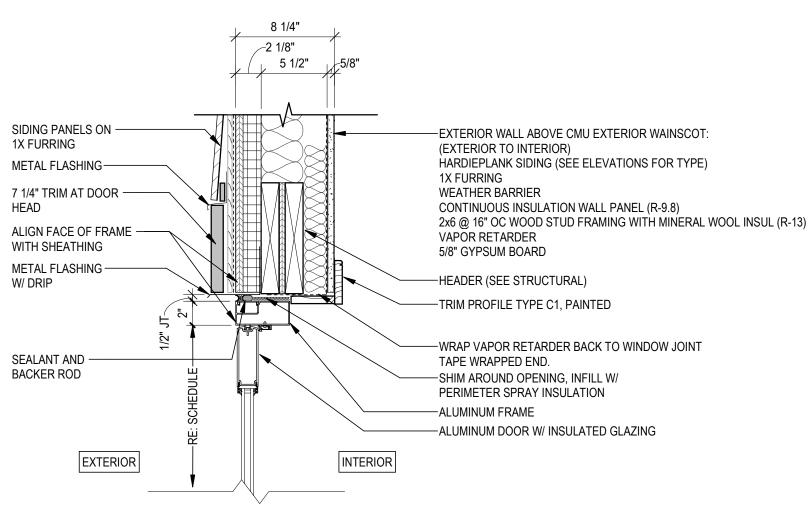
1X FURRING

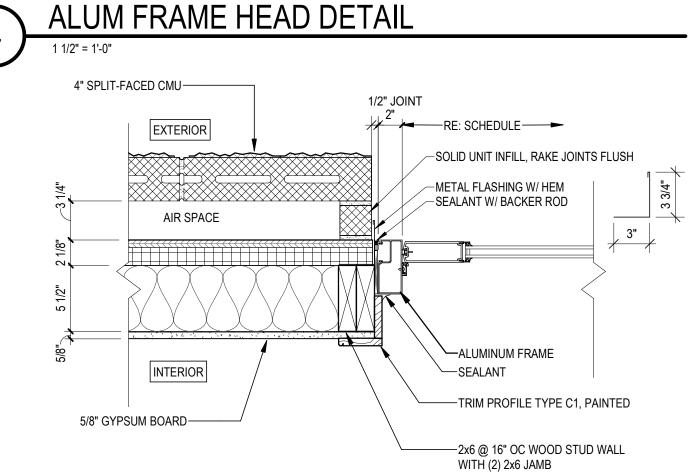
HEAD

W/ DRIP

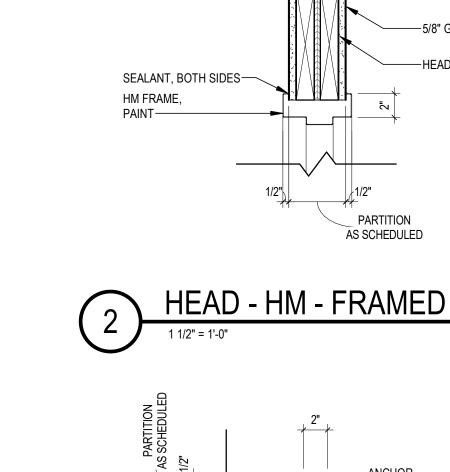


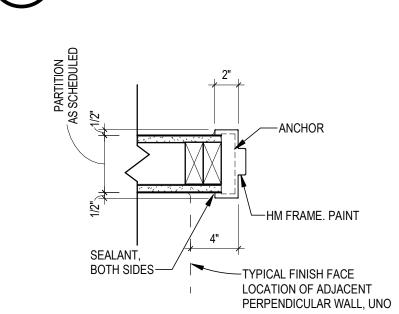












-5/8" GYPSUM BOARD EACH SIDE

-HEADER (SEE STRUCTURAL)

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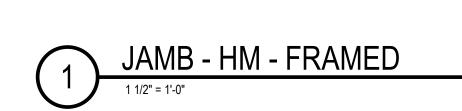
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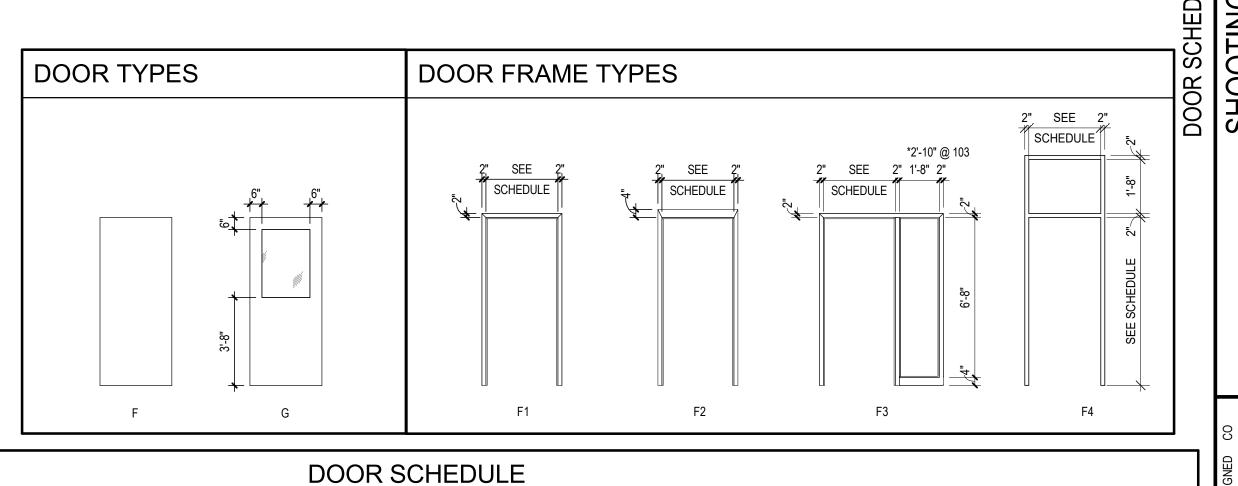
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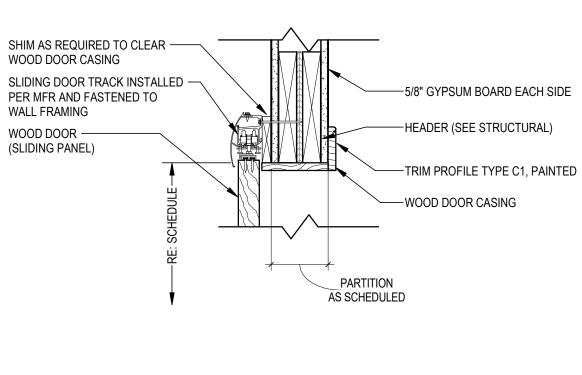
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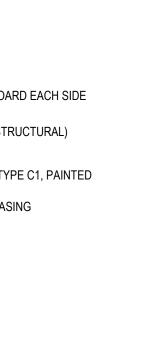


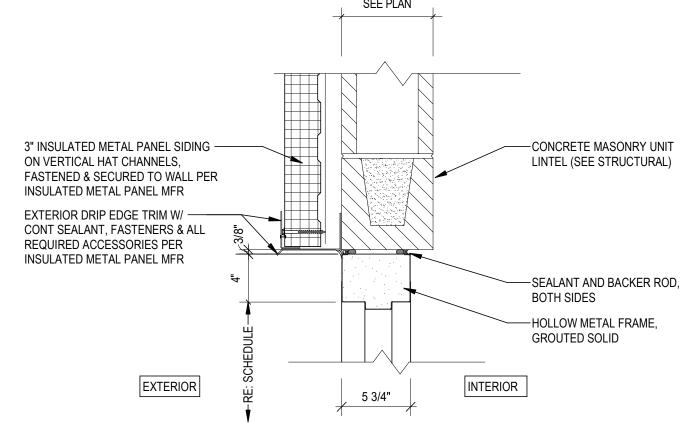


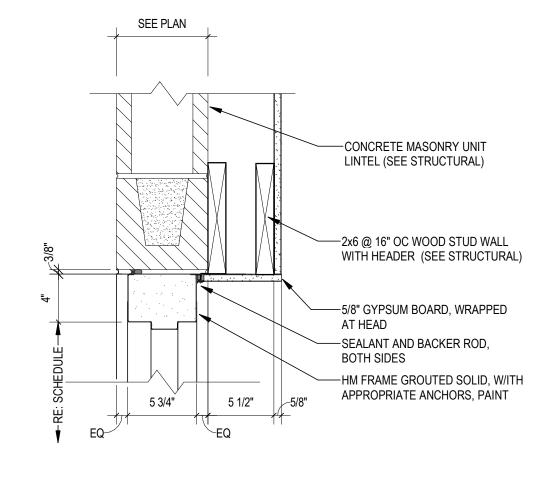
																						_
CH	HEDULE KEY:	:																				٥
S : ON	<u>RK:</u> SPECIFIED FLOOR .NS	TYPE: REFER TO LEGENDS O THIS SHEET	AL N CW	FIBERGL POLYVIN STEEL	- JM OOD G TO REMAIN	AL CW EXST FG	FIBERG HOLLO\ POLYVI	 UM /OOD IG TO REM.	EXS AN PT STN	ST EXIS ANNO SPEC	ŤED	EMAIN C	GL-1 GL-2	DOUBLE PA	NNE, CLEAR ANE, CLEAF ANE, GRAY	R INDICAT	TO DETAILS	l —	RE RATING: MINUTES		HARDWARE SET: REFER TO PROJECT MANUAL DIVISION 08 FOR HARDWARE SCHEDULE	DATE
	JEDU E NOT		WD	VINYL WOOD		VL WD	STEEL VINYL WOOD															-0R
. R		ES: ECIFICATION 101 FOR INTE																				SSUED
>			SIZE		NO. OF		DOOR			FR	AME		GLA	AZING		DETAIL		FIRE R	ATING			
씸	MARK	WIDTH F	HEIGHT	THICK.	LEAFS	TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH	DEPTH		YPE	HEAD	JAMB	THRSH	WALL	LBL.	HDW	NOTES	
	100A	6'-2"	7'-0"	1 3/4"	2	G	AL	AN	F4	AL	AN	5 3/4"		-	7/ A-601	3 & 6/ A-601				AL1	TRANSOM ABOVE DOOR	٦   چ
	100B	6'-2"	7'-0"	1 3/4"	2	G	AL	AN	F1	AL	AN	5 3/4"		-	5/ A-601	SIM 5/ A-601				8		
	102	3'-6"	7'-0"	1 3/4"	1	F	WD	PT-1		HM	PT-2				6/ A-602	5/ A-602				6	SLIDING DOOR	╛┪

2. R 3.	EFER TO AI	F101 FOR IN	ITERIOR TRII	M PROFILES	;															
>			SIZE		NO. OF		DOOR			FR	AME		GLAZING	G DETAIL			FIRE R	ATING		
RE	MARK	WIDTH	HEIGHT	THICK.	LEAFS	TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH	DEPTH	TYPE	HEAD	JAMB	THRSH	WALL	LBL.	HDW	NOTES
	100A	6'-2"	7'-0"	1 3/4"	2	G	AL	AN	F4	AL	AN	5 3/4"	-	7/ A-601	3 & 6/ A-601				AL1	TRANSOM ABOVE DOOR
	100B	6'-2"	7'-0"	1 3/4"	2	G	AL	AN	F1	AL	AN	5 3/4"	-	5/ A-601	SIM 5/ A-601				8	
	102	3'-6"	7'-0"	1 3/4"	1	F	WD	PT-1		HM	PT-2			6/ A-602	5/ A-602				6	SLIDING DOOR
	103	3'-0"	7'-0"	1 3/4"	1	G	WD	PT-1	F3	HM	PT-2	5 3/4"	-	2/ A-601	1/ A-601				05A	
	104A	3'-6"	7'-0"	1 3/4"	1	F	WD	PT-1		HM	PT-2			6/ A-602	5/ A-602				6	SLIDING DOOR
	104B	3'-6"	7'-0"	1 3/4"	1	F	WD	PT-1		HM	PT-2			6/ A-602	5/ A-602				7	SLIDING DOOR
	106	3'-6"	7'-0"	1 3/4"	1	F	WD	PT-1	F1	HM	PT-2	5 3/4"	-	2/ A-601	1/ A-601				1	
	107	3'-6"	7'-0"	1 3/4"	1	F	WD	PT-1	F1	HM	PT-2	5 3/4"	-	2/ A-601	1/ A-601				1	
	108A	3'-0"	7'-0"	1 3/4"	1	F	WD	PT-1	F3	HM	PT-2	5 3/4"	-	2/ A-601	1/ A-601				4	
	108B	6'-2"	7'-0"	1 3/4"	2	G	AL	AN	F1	AL	AN	5 3/4"	-	4/ A-601	3 & 6/ A-601				AL2	
	109	4'-0"	7'-0"	1 3/4"	1	F	WD	PT-1	F1	HM	PT-2	7 3/4"	-	2/ A-601	1/ A-601				2	
	110	3'-6"	7'-0"	1 3/4"	1	F	WD	PT-1	F1	HM	PT-2	7 3/4"	-	2/ A-601	1/ A-601				3	
	111	3'-6"	7'-0"	1 3/4"	1	F	WD	PT-1	F2	HM	PT-2	5 3/4"	-	2/ A-602	1/ A-602				2	BULLET RESISTANT ASSEMBLY
	112A	3'-6"	7'-0"	1 3/4"	1	G	WD	PT-1	F2	HM	PT-2	5 3/4"	-		SIM 1/ A-602				05B	BULLET RESISTANT ASSEMBLY
	112B	3'-0"	7'-0"	1 3/4"	1	F	AL	AN	F2	HM	AN	5 3/4"	-	4/ A-602	3/ A-602				AL3	BULLET RESISTANT ASSEMBLY

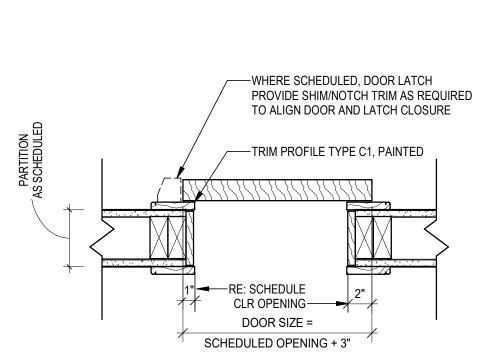






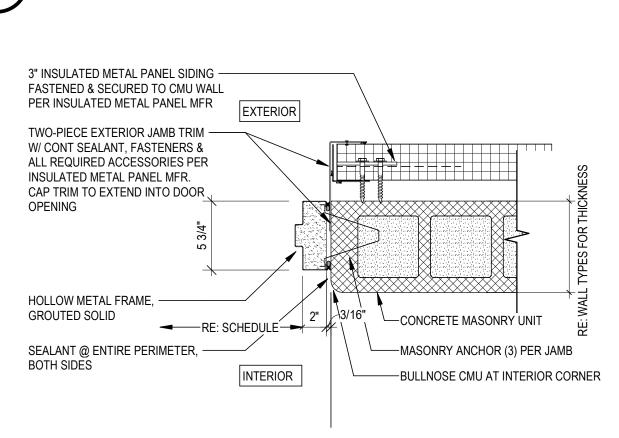




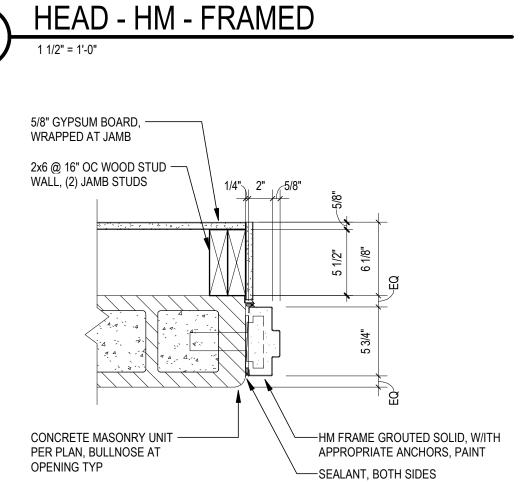












	CONCRETE MASONRY UNIT  PER PLAN, BULLNOSE AT  OPENING TYP
$\overline{1}$	JAMB - HM - FRAMED
<u> </u>	1 1/2" = 1'-0"

TAL PANEL SIDING JEED TO MULLIPER SIDING SIDING MARAPED AT JAME SIDING JAME TRIM FEATER PANEL ME PER JAME SIDING SIDING JAME TRIM PEATER PANEL ME PER JAME SIDING SIDING JAME TRIM SIDING JAME SIDING SIDING JAME TRIM SIDING JAME TRIM SIDING JAME SIDING SIDING JAME TRIM SIDING JAME SIDING SIDING JA	SEE PLAN  CONCRETE MASONRY UNIT LINTEL (SEE STRUCTURAL)  JRED TO WALL PER PANEL MFR  DOGE TRIM W ASTENERS & ALL SORIES PER PANEL MFR  SEALANT AND BACKER ROD, BOTH SIDES  HOLLOW METAL FRAME, GROUTED SOLID  EXTERIOR  SEE PLAN  CONCRETE MASONRY UNIT LINTEL (SEE STRUCTURAL)  INTERIOR	CONCRETE MASONRY UNIT LINTEL (SEE STRUCTURAL)  2x6 @ 16" OC WOOD STUD WALL WITH HEADER (SEE STRUCTURAL)  5/8" GYPSUM BOARD, WRAPPED AT HEAD  SEALANT AND BACKER ROD, BOTH SIDES  HM FRAME GROUTED SOLID, W/ITH APPROPRIATE ANCHORS, PAINT	DOOR DET  SHOOTING C  The MICHIGAN DEPARTMENT OF N  WESTERN PENINSULA SH
TAL PANEL SIDING THERE TO CAN UNALL TEAL PANEL MER TEND INTO DOOR THERE SCHEDULE THE STRINES & CESSORES PER PANEL MER END INTO DOOR THE PANEL MER THE STRINES & THE STRINE	R HEAD DETAIL		DESIGNED DRAWN CHECKED APPROVED
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CLUBHOUSE

SECURITY WINDOW FRAME-

2x6 @ 16" OC WOOD STUD WALL

WITH (2) 2x6 WINDOW SILL PLATE

SEALANT, BOTH SIDES-

3/4" HARDWOOD SILL, -

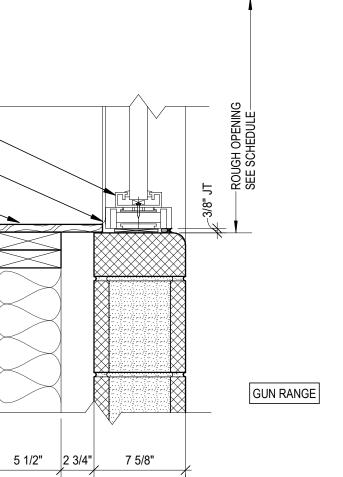
EASE EDGE, PAINTED

5/8" GYPSUM BOARD-









SECURITY WINDOW JAMB
1 1/2" = 1'-0"

5/8" GYPSUM BOARD--SILL BELOW 2x6 @ 16" OC WOOD STUD -TRIM PROFILE TYPE C1, PAINTED WALL, (2) JAMB STUDS -OPENING TRIM, PAINTED CLUBHOUSE -SEALANT GUN RANGE CONCRETE MASONRY UNIT -SECURITY WINDOW FRAME PER PLAN, BULLNOSE AT OPENING TYP ROUGH OPENING SEE SCHEDULE -

5 1/2" [2 3/4"] 7 5/8"

SECURITY WINDOW HEAD

GUN RANGE

-CHAIR RAIL BELOW, PROVIDE

TRANSITION TO MATCH TRIM PROFILE

-CONCRETE MASONRY UNIT

LINTEL (SEE STRUCTURAL)

-SEALANT AND BACKER ROD

CLUBHOUSE

2x6 @ 16" OC WOOD STUD WALL WITH HEADER (SEE STRUCTURAL)

5/8" GYPSUM BOARD-

TRIM PROFILE

TYPE C1, PAINTED-

OPENING TRIM, PAINTED-

SECURITY WINDOW FRAME

INTERIOR WINDOW JAMB

METAL FLASHING W/ HEM, COLOR TO MATCH SIDING SIDING ON 1X FURRING-EXTERIOR SIDING —RE: SCHEDULE — ► EXTERIOR -ALUM FRAME WINDOW —SHIM AROUND OPENING, INFILL W/ PERIMETER SPRAY INSULATION -WRAP VAPOR RETARDER BACK TO WINDOW JOINT TAPE WRAPPED END. -TRIM PROFILE TYPE C1, -2x6 @ 16" OC WOOD STUD WALL WITH (2) 2x6 JAMB

> -SHIM AROUND OPENING, INFILL W/ PERIMETER SPRAY INSULATION

> > TRIM PROFILE TYPE C1,

-3/4" HARDWOOD SILL,

EASE EDGE, PAINTED

-5/8" GYPSUM BOARD

INTERIOR

3 5/8" 3 1/4" 2 1/8" 5 1/2"

1'-3 1/8"

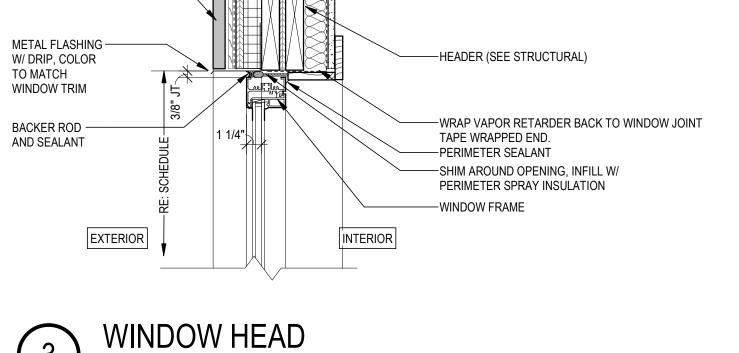
8 1/4"

6 7/8"

PAINTED

-2x6 @ 16" OC WOOD STUD WALL

WITH (2) 2x6 WINDOW SILL PLATE



SIDING PANELS ON -

METAL FLASHING-

7 1/4" TRIM AT HEAD-

1X FURRING

WINDOW SUB-SILL-

ACCENT BAND SILL-

4" SPLIT-FACED CMU

EXTERIOR

WAINSCOT



FRAME MATERIAL

CW CLAD WOOD

FG FIBERGLASS

PVC POLYVINYL CHLORIDE ST STEEL VL VINYL WD WOOD

. REFER TO WINDOW AND SECURITY WINDOW SPECIFICATIONS FOR GLASS TYPES REFER TO WINDOW AND SECURITY WINDOW SPECIFICATIONS FOR FRAME FINISHES

4'-10"

5'-8"

4'-10"

5'-4"

WIDTH | HEIGHT | MAT'L | FINISH

AL

AL

SIZE

3'-0"

4'-0"

4'-0"

ALUMINUM

EXST EXISTING TO REMAIN PTD PAINTED

SCHEDULE KEY:

SCHEDULE NOTES:

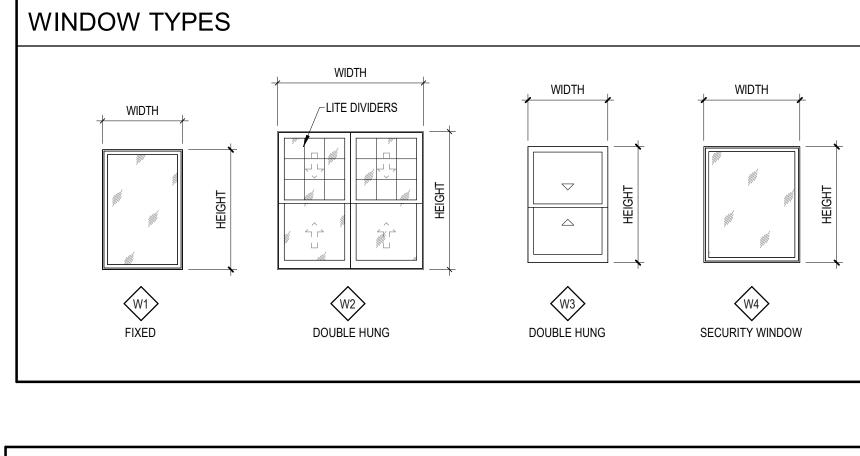
W2

AS SHOWN ON REFER TO

FLOOR PLANS LEGEND ON

MARK | TYPE

THIS SHEET



FRAME FINISH:

STN STAINED

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FRAME

PF PRE-FINISHED

WINDOW SCHEDULE

GLAZING

EXST EXISTING TO REMAIN GL-1 1 PANE, CLEAR

**GLAZING TYPE:** 

GL-2 2 PANE, CLEAR

GL-3 2 PANE, GRAY

DETAIL

**DETAIL**:

AS INDICATED

HEAD JAMB SILL WALL WNDW NOTES

FIRE RATING:

SECURITY WINDOW

REFER TO DETAILS IN MINUTES

FIRE RATING

A-603

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ROOM	AREA	OCCUPANTS /1000 SQ FT	OCCUPANTS	RA CFM /SQ FT	RP CFM/ OCCUPANT	RA	RP	EXHAUST FLOW CFM	TOTAL CFM (RA+RP)
100 MAIN ENTRY	109	-	-	-	-	-	-	-	-
101 LOBBY	665	10	7	0.06	5	40	35	-	75
102 OFFICE	214	5	2	0.06	5	13	10	-	23
103 RANGE ENTRY	100	-	-	0.06	-	6	-	-	6
104 KITCHENETTE	112	-	-	-	-	-	-	-	-
105 HALL	57	-	-	0.06	-	4	-	-	4
106 TOILET	70	-	-	-	-	-	-	75	-
107 TOILET	70	-	-	-	-	-	-	75	-
108 CONFERENCE	968	50	49	0.06	5	59	245	-	304
109 STORAGE	180	-	-	0.12	-	22	-	-	22
110 MECHANICAL	185	-	-	-	-	-	-	-	-
111 RANGE STORAGE	153	-	-	0.12	-	19	-	-	19
112 RANGE	3189	-	-	0.30	-	957	-	-	957
TOTALS								150	1410

INSULATIO	INSULATION SCHEDULE											
ITEM	THICKNESS	TYPE	REMARKS									
OUTSIDE AIR DUCT 2" FIBERGLASS TYPE ASJ												
SUPPLY DUCT	SUPPLY DUCT 1 1/2" FIBERGLASS TYPE ASJ											
EXHAUST DUCT	EXHAUST DUCT 2" FIBERGLASS TYPE ASJ											
<ol> <li>ALL DUCTS WITHIN 25' OF MOTORS, INSTALL 1" MANVILLE LINO-COUSTIC DUCT LINER OR EQUAL, EXCLUDING OA DUCT.</li> <li>EXPOSED DUCTWORK SHALL BE INSULATED WITH RIGID FIBERGLASS DUCT INSULATION AND JACKET.</li> </ol>												

OUTSIDE AIR.

DUCT SEAMS SHALL BE EITHER PITTSBURG OR BUTTON LOCK.

ALL DAMPERS MUST HAVE A POSITION INDICATOR ON THE SHAFT. 8. DAMPERS GREATER THAN 8" IN WIDTH MUST BE OPPOSED BLADE.

. STANDING RIB CLEATS ARE REQUIRED ON DUCTS HAVING WIDTHS OF 24" OR MORE . ALL JOINTS IN SHEET METAL SHALL BE SEALED WITH AN APPROVED DUCT SEALANT.

### **GENERAL NOTES - MECHANICAL**

COORDINATE LOCATIONS OF THE THERMOSTATS WITH OTHER TRADES.

MECH. ABBR.

AUTOMATIC AIR VENT

ACCESS DOOR/PANEL

ABOVE FINISH FLOOR

AIR PRESSURE DROP

BACK DRAFT DAMPER

BOTTOM OF DUCT

CEILING GRID

CONVECTOR

DRY BULB

DIAMETER

EXHAUST AIR

EXHAUST FAN

**EXISTING** 

**ENTERING DRY BULB** 

ENTERING WET BULB

DOWN

**CONDENSING UNIT** 

CONDENSATE RETURN

CABINET UNIT HEATER

DIFFERENTIAL PRESSURE SENSOR

ENTERING AIR TEMPERATURE

EXTERNAL STATIC PRESSURE

ENTERING WATER TEMPERATURE

BACK FLOW PREVENTER

CUBIC FEET PER MINUTE

AIR FLOW MEASURING STATION

AIR

AAV

AD

AFF

AFMS

APD

BDD

BFP

BOD

CFM

CND

CONV

CR

CUH

DB

DN

DPS

EAT

EDB

ESP

**EWB** 

EWT

**EXIST** 

DIA Ø

CG

- PROVIDE BALANCE DAMPERS FOR EACH DIFFUSER/GRILLE AND BRANCH DUCT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EQUIPMENT AND MATERIALS IN A "NEW" CONDITION DURING
- . ALL EXTERNALLY ISOLATED HVAC EQUIPMENT SHALL HAVE FLEXIBLE DUCT CONNECTORS
- . ALL CONDENSATE DRAIN PIPING TO TERMINATE TO DRAIN VIA AIR GAP.

FPM

FPS

FT

GPH

GPM

HVAC

LDB

LWB

LWT

MAX

MBH

MCA

MISC

MTD

MUA

AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. DO NOT SCALE FROM DRAWINGS.

DRAWINGS INDICATE REQUIRED SIZES AND POINTS OF TERMINATION OF PIPES AND DUCTS AND SUGGESTED ROUTES. IT IS THE NOT INTENTION THE OF DRAWINGS TO INDICATE ALL NECESSARY OFFSETS. INSTALL WORK IN MANNER TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM

MECH. ABBR.

FEET PER MINUTE

FEET PER SECOND

FAHRENHEIT DEGREE

NATURAL / LP GAS

GALLONS PER HOUR

GALLONS PER MINUTE

HEATING VENTILATION & AIR

LEAVING AIR TEMPERATURE

LEAVING WATER TEMPERATURE

THOUSAND BTU PER HOUR

MINIMUM CIRCUIT AMPS

LOW PRESSURE STEAM

LEAVING WET BULB

HOT WATER COIL

HORSEPOWER

CONDITIONING

INCH

LOUVER

LINEAL FEET

MAXIMUM

MINIMUM

MOUNTED

**MISCELLANEOUS** 

MAKE-UP AIR UNIT

FEET

**GAUGE** 

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E NATUR

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MECH. ABBR.

PRESSURE REDUCING VALVE

POUNDS PER SQUARE INCH GAUGE

POUNDS PER SQUARE INCH

OUTSIDE AIR

RETURN AIR

RETURN FAN

SUPPLY AIR

SUPPLY FAN

STANDARD

TYPICAL

**VENT** 

UNIT HEATER

VARIABLE AIR VOLUME

WATER PRESSURE DROP

WATER HEATER

VARIABLE FREQUENCY DRIVE

STATIC PRESSURE

GRAVITY RELIEF HOOD

REVOLUTIONS PER MINUTE

PHASE

OA

PSIG

STD

TYP

VAV



SHOOTING COMPL MICHIGAN DEPARTMENT OF NATURAL WESTERN PENINSULA SHOOTING

S A IS

M-00

NATURAL GAS FIN TUBE RADIATION 

C--6"ø STM─ — — — — — O C-6"ø STM e-6"ø G- — — — — — — B. INSULATE EXHAUST DUCTS WITHIN 10' OF EXTERIOR OPENINGS AND EXHAUST DUCTS EXPOSED TO

3" DIRECT VENT \
TERMINATION

Ø 24"x12"

24"x12" SA

STORAGE 109

≻3" CONCENTRIC VENT TERMINATION

COORDINATED WITH FINAL LAYOUT

OA SCUTTLE TERMINATE WITH WALL CAP

LINE SETS SIZE PER MANUFACTURER'S RECOMMNEDATIONS

> -4" CONCENTRIC VENT TERMINATION

GLIDEPACK
MULTITRACK 25
FILTER HOUSING

COORDINATED WITH

FINAL LAYOUT

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DUCT TO BE SUPPORTED BY
GALVANIZED UNISTRUT
ATTACHED TO PRESSURE
TREATED 4x4 TIMBER



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MARK

MUA-1

SERVICE

RANGE

CFM

21000

EAT / LAT

(°F)

-19/95

RPM ESP (IN-WG)

0.75

1725

	FAN SCHEDULE													
MARK	SERVICE	LOCATION	DRIVE TYPE	CFM	RPM	ESP (IN-WG)	HP	ELECTRICAL	MANUFACTURER	MODEL	REMARKS			
EF-1	RANGE	OUTSIDE	BELT	23000	1140	5	30	240/3	GREENHECK	USF-36	INCLUDE INSULATED INTAKE DAMPER, ARRANGEMENT: 4, ROTATION: CW DISCHARGE POSITION: TH			
EF-2	TLT 106	CEILING	DIRECT	75	887	0	6 W	115/1	GREENHECK	SP-A50-90-VG	PROVIDE WITH BACKDRAFT DAMPER			
EF-3	TLT 107	CEILING	DIRECT	75	887	0	6 W	115/1	GREENHECK	SP-A50-90-VG	PROVIDE WITH BACKDRAFT DAMPER			

							F	URNA	CE SCHED	ULE		
ı		М	BH	CI	FM	ELECTR	ICAL	CONNECT	TON DIAMETER (IN)			
	MARK	INPUT	OUTPUT	HEATING	COOLING	VOLTAGE	PHASE	FLUE	COMBUSTION AIR	MANUFACTURER	MODEL	REMARKS
	F-1	120	117	2375	2115	115	1	4	4	CARRIER	59TP6A120-22	PROVIDE WITH PROGRAMMABLE THERMOSTAT
	F-2	120	117	2375	2115	115	1	4	4	CARRIER	59TP6A120-22	PROVIDE WITH PROGRAMMABLE THERMOSTAT

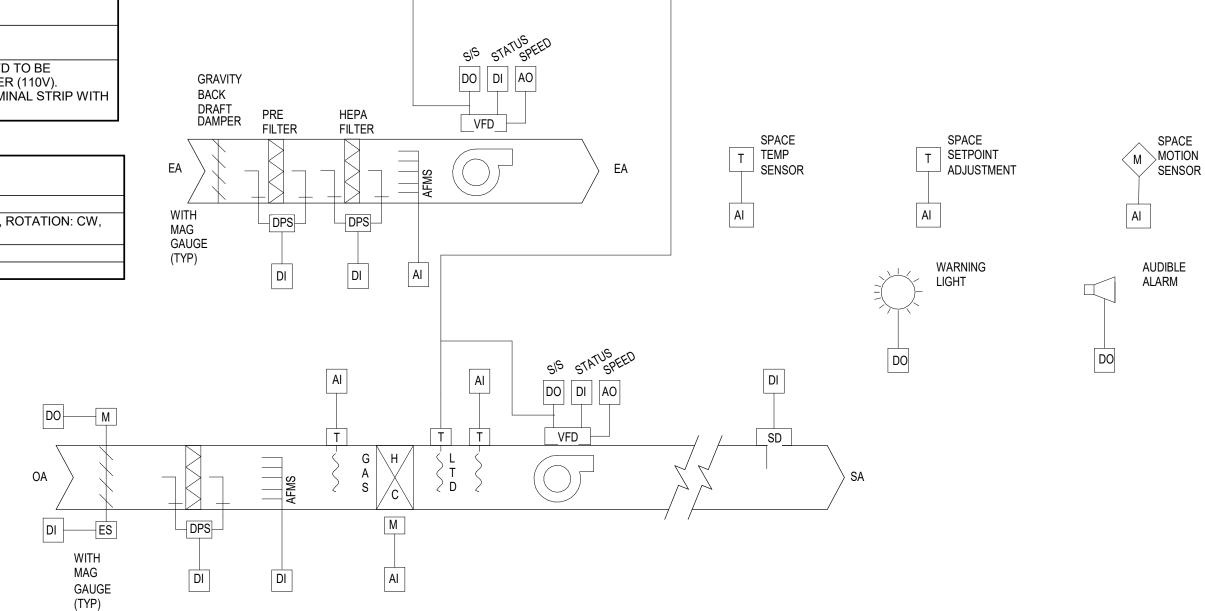
	CONDENSER SCHEDULE														
				ELECTR	ICAL										
MARK	SERVICE	MBH	VOLTAGE	PHASE	MCA	MCB	MANUFACTURER	MODEL	REMARKS						
CND-1	F-1	60	240	1	37	60	CARRIER	24ACB760	PLACE ON FIBERGLASS PAD						
CND-2	F-2	60	240`	1	37	60	CARRIER	24ACB760	PLACE ON FIBERGLASS PAD						
CND-2	F-Z	60	240	1	37	60	CARRIER	24ACB760	PLACE ON FIBERGLASS PAD						

GAS-FIRED UNIT HEATER SCHEDULE												
			ME	3H	ELECTR	ICAL						
SERVICE	LOCATION	CFM	INPUT	OUTPUT	VOLTAGE	PHASE	REMARKS					
112 RANGE	112 RANGE	1537	125	99.6	115	1	PROVIDE WITH THERMOSTAT AND CC6 HORIZONTAL VENT KIT					
_ _			SERVICE LOCATION CFM	SERVICE LOCATION CFM INPUT	SERVICE LOCATION CFM INPUT OUTPUT	SERVICE LOCATION CFM INPUT OUTPUT VOLTAGE	SERVICE LOCATION CFM INPUT OUTPUT VOLTAGE PHASE					

	FILTER SCHEDULE												
MARK	PANEL SIZE	DEPTH	QTY	MERV RATING	VELOCITY (CFM)	INITIAL PRESSURE DROP (IN-WG)	MANUFACTURER	MODEL	REMARKS				
FILT-1	24x24	4	15	8	2000	0.27	CAMFIL	FARR 30/30					
FILT-2	FILT-2 24x24 12 15 17 2000 1.0 CAMFIL ABSOLUTE VG												

	GRAVITY RELIEF HOOD SCHEDULE													
	SIZE													
MARK	SERVICE	CFM	THROAT VELOCITY (FPM)	THROAT (IN)	HOOD (IN)	ESP (IN-WG)	MANUFCTURER	MODEL	REMARKS					
RH-1	TOILET ROOMS	150	405	8	20.5	0.017	GREENHECK	GRSR-8	PROVIDE WITH 14" PITCHED ROOF CURB, CURB FINISH TO MATCH ROOF PANEL COLORS					

MARK	Flow	DIMENSIONS (INxIN)	CONNECTION (IN)	SUPPLY	RETURN	EXHAUST	MANUFACTURER	MODEL	REMARKS
100.1	125	24x24	8	X	INLIGININ	LATIAGGI	PRICE	SPD	INLIVIATIO
101.1	270	24x24	10	X			PRICE	SPD	
101.2	270	24x24	10	X			PRICE	SPD	
101.3	270	24x24	10	X			PRICE	SPD	
101.4	270	24x24	10	X			PRICE	SPD	
101.7	360	24x24	10		X		PRICE	530	
102.1	275	24x24	10	Х			PRICE	SPD	
102.2	275	24x24	10		Х		PRICE	530	
103.1	150	24x24	8	Х			PRICE	SPD	
103.2	150	24x24	8		Х		PRICE	530	
104.1	125	24x24	8	Х			PRICE	SPD	
106.1	50	24x24	6	Х			PRICE	SPD	
107.1	50	24x24	6	Х			PRICE	SPD	
107.2	125	24x24	8		Х		PRICE	530	
107.6	125	24x24	8		Х		PRICE	530	
107.7	360	24x24	10		Х		PRICE	530	
107.8	360	24x24	10		Х		PRICE	530	
108.1	350	24x24	10	Х			PRICE	SPD	
108.2	350	24x24	10	Х			PRICE	SPD	
108.3	350	24x24	10	X			PRICE	SPD	
108.4	350	24x24	10	X			PRICE	SPD	
108.5	350	24x24	10	X			PRICE	SPD	
108.6	350	24x24	10	X			PRICE	SPD	
108.7	420	24x24	10		X		PRICE	530	
108.8	420	24x24	10		X		PRICE	530	
108.9	420	24x24	10		X		PRICE	530	
108.10	420	24x24	10		X		PRICE	530	
108.11	420	24x24	10		X		PRICE	530	
109.1	75	24x24	6	Х			PRICE	SPD	
109.2	75	24x24	6		X		PRICE	530	
112.1	21500	48"-36"		Х			DUCTSOX		14' OF 48" DUCT, 14' OF 36" DUCT, VENTS AT 9:00 & 10:00
112.2	2100	24x24				X	PRICE	95	INCLUDE OPPOSED BLADE DAMPER
112.3	2100	24x24				X	PRICE	95	INCLUDE OPPOSED BLADE DAMPER
112.4	2100	24x24				X	PRICE	95	INCLUDE OPPOSED BLADE DAMPER
112.5	2100	24x24				X	PRICE	95	INCLUDE OPPOSED BLADE DAMPER
112.6	2100	24x24				X	PRICE	95	INCLUDE OPPOSED BLADE DAMPER
112.7	2100	24x24				X	PRICE	95	INCLUDE OPPOSED BLADE DAMPER
112.8	2100	24x24				X	PRICE	95	INCLUDE OPPOSED BLADE DAMPER
112.9	2100	24x24				X	PRICE	95	INCLUDE OPPOSED BLADE DAMPER
112.10	2100	24x24				X	PRICE	95	INCLUDE OPPOSED BLADE DAMPER
112.11	2100	24x24				X	PRICE	95	INCLUDE OPPOSED BLADE DAMPER
112.12	2100	24x24				X	PRICE	95	INCLUDE OPPOSED BLADE DAMPER



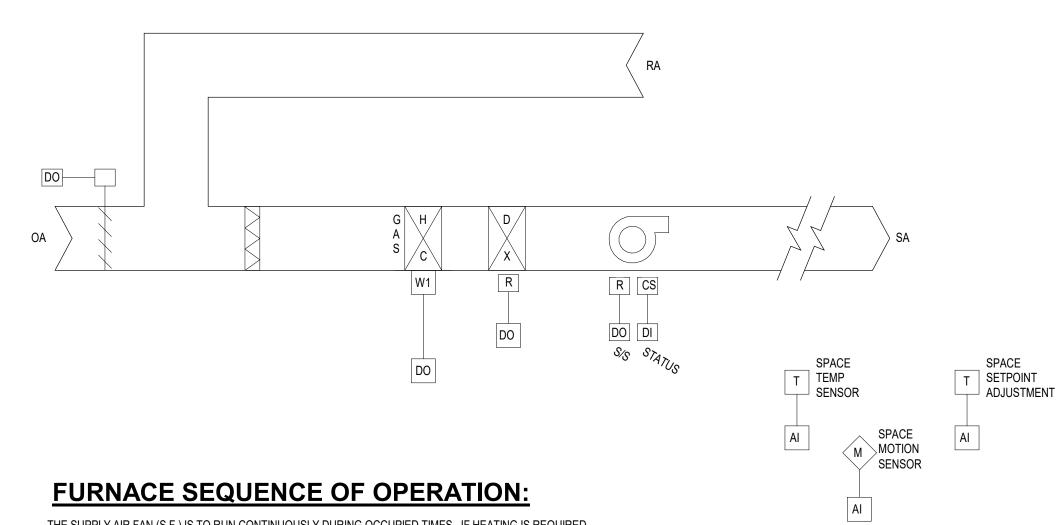
## **MUA/EF SEQUENCE OF OPERATION:**

THE SUPPLY AIR FAN (S.F.) IS TO RUN CONTINUOUSLY AT A CONSTANT SPEED (VFD ONLY FOR BALANCING) DURING SENSED OCCUPANCY. EXHAUST FAN SHALL BE INTERLOCKED. IF ANY FAN SHALL DEVIATE FROM COMMAND, AN AUDIBLE INDOOR ALARM SHALL BE PRESENT. AIR FLOW MEASURING STATIONS SHALL MONITOR FLOW IN BOTH THE MAKE UP AIR UNIT AND THE EXHAUST FAN. THE EXHAUST FAN VFD SHALL MODULATE THE EXHAUST FAN TO MAINTAIN A FIXED OFFSET OF 2100 CFM (ADJ) GREATER THAN THE MAKE UP AIR UNIT. AS THE FILTERS IN THE EXHAUST LOAD THE MODULATION PREVIOUSLY MENTIONED SHALL BE MAINTAINED. ON A CONDITION OF LOW TEMPERATURE DISCHARGE (MANUAL RESET) THERE SHALL BE A DIRECT WIRED INTERCONNECT TO SHUTDOWN BOTH THE SUPPLY AND EXHAUST FAN.

DAMPER CONTROL: DURING OCCUPIED TIMES THE OUTSIDE AIR DAMPER SHALL BE OPEN. DAMPER SHALL PROVE OPEN BEFORE STARTING SUPPLY FAN.

HEATING CONTROL: DURING OCCUPIED TIMES, THE DISCHARGE TEMPERATURE SHALL BE MEASURED AND RESET TO MAINTAIN ZONE SETPOINT AT 65 DEG F (ADJ). IT SHALL BE MAINTAINED BY ENABLING AND MODULATING THE GAS HEAT.

IF THE SMOKE DETECTOR IS IN ALARM OR TROUBLE CONDITION, MUA SHALL SHUT DOWN. IF THE FILTER STATIC DIFFERENTIAL PRESSURE REACHED ADJUSTABLE SETPOINT, A VISUAL ALARM LIGHT ON THE EXTERIOR PLACED ABOVE THE RANGE EXIT DOOR SHALL BE ACTIVATED.

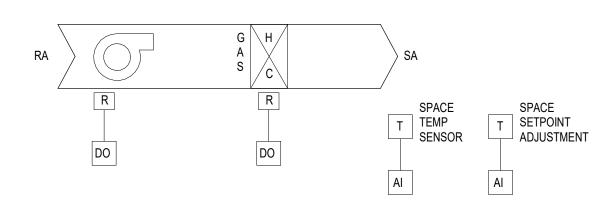


THE SUPPLY AIR FAN (S.F.) IS TO RUN CONTINUOUSLY DURING OCCUPIED TIMES. IF HEATING IS REQUIRED DURING SCHEDULED OR SENSED UNOCCUPIED TIMES THE FAN SHALL CYCLE WITH LOAD.

DAMPER CONTROL: DURING OCCUPIED TIMES, THE OUTSIDE AIR DAMPER SHALL BE OPEN.

HEATING AND COOLING CONTROL: DURING OCCUPIED TIMES, THE ROOM TEMPERATURE SHALL BE MAINTAINED BY ENABLING GAS HEAT AND DX COIL IN SEQUENCE WITHOUT OVERLAP. DURING UNOCCUPIED TIMES, THE UNOCCUPIED ROOM SETPOINT SHALL BE MAINTAINED BY ENABLING GAS HEAT. THERE SHALL BE A 3 DEGREE (ADJUSTABLE) DEADBAND BETWEEN HEATING AND COOLING. WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 65°F THE COOLING SHALL BE LOCKED OUT.

ROOM SETPOINT OCCUPIED: 75°F (ADJ.) COOLING, 72°F (ADJ.) HEATING. ROOM SETPOINT UNOCCUPIED: NO COOLING, 60°F (ADJ.) HEATING.

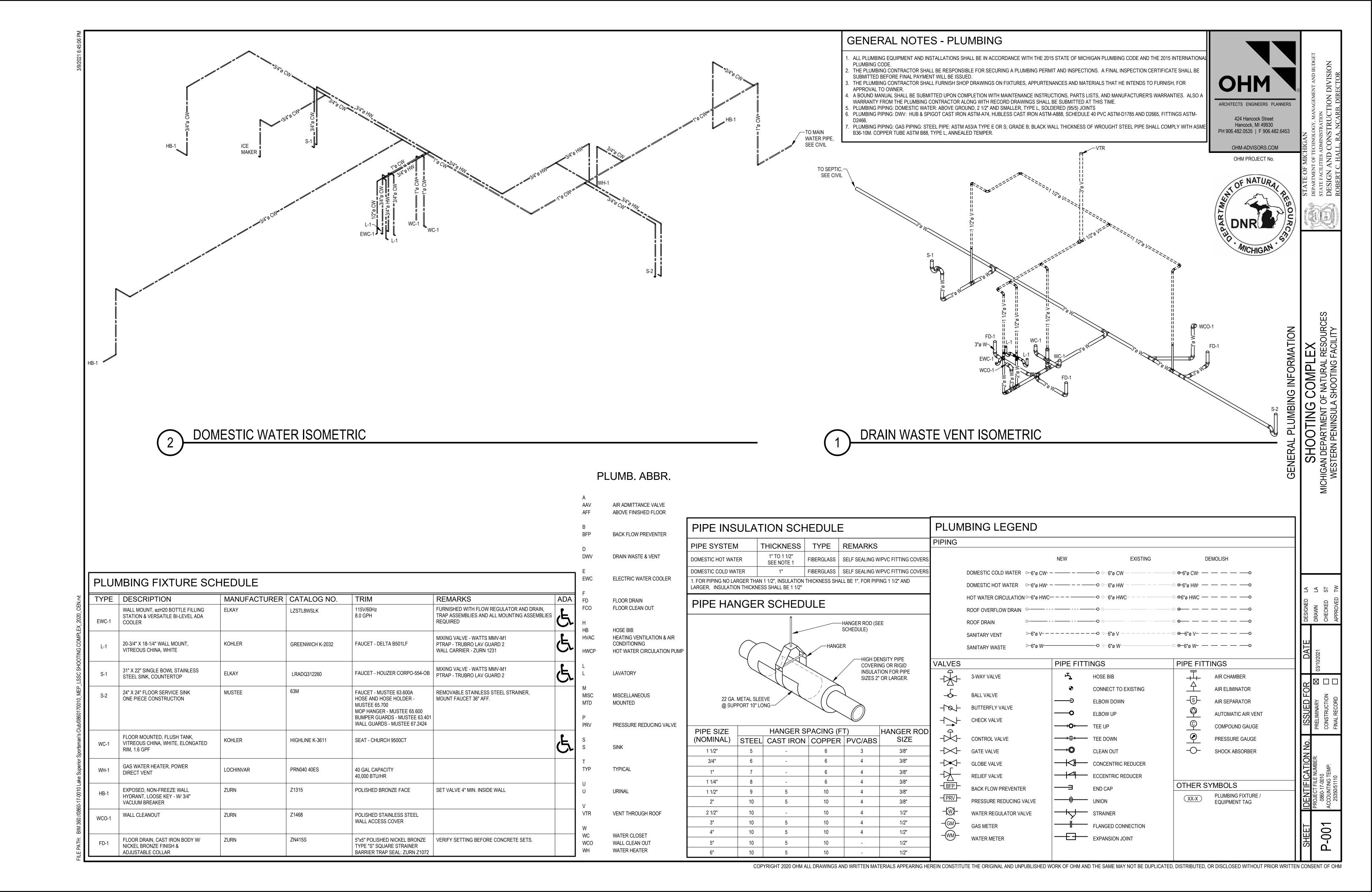


### **UH SEQUENCE OF OPERATION:**

ON A CALL FOR HEATING, CYCLE FAN AND ENABLE GAS HEAT TO CONTROL SPACE SETPOINT. ROOM SETPOINT OCCUPIED: 65°F HEATING. ROOM SETPOINT UNOCCUPIED: 60°FHEATING.







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AMPERE

CONDUIT

CAT

CMU

CO.

KVA

MCB

MDP

MH

MISC

MLO

MTD

RECEPT

UGE UH

XFMR

CB

CATALOGUE

COMPANY

EXHAUST FAN

FIRE ALARM

INTERRUPTER

CONDITIONING

CIRCUIT BREAKER

CABIN UNIT HEATER

CONCRETE MASONRY UNIT

ELECTRICAL CONTRACTOR

ELECTRIC WATER COOLER

GROUND FAULT CIRCUIT

HIGH PRESSURE SODIUM

KEY OPERATED DEVICE

LIGHT EMITTING DIODE

MAIN CIRCUIT BREAKER

METAL HALIDE

MISCELLANEOUS

MAIN LUG ONLY

MOUNTED

NEUTRAL

NUMBER

PILOT

RECEPTACLE

TELEVISION

UNIT HEATER

**VOLT-AMPERES** 

WEATHERPROOF

TRANSFORMER

UNDERGROUND ELECTRIC

UNLESS NOTED OTHERWISE

WIRELESS NETWORK CONTROLLER

**TYPICAL** 

MAIN DISTRIBUTION PANEL

KILOVOLT-AMPERES KILO-WATTS

**EQUIPMENT GROUND** 

ABOVE FINISHED FLOOR

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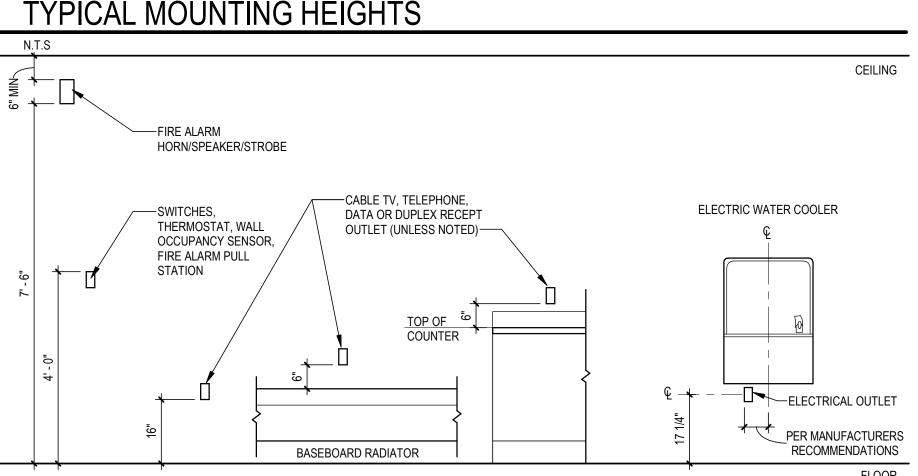
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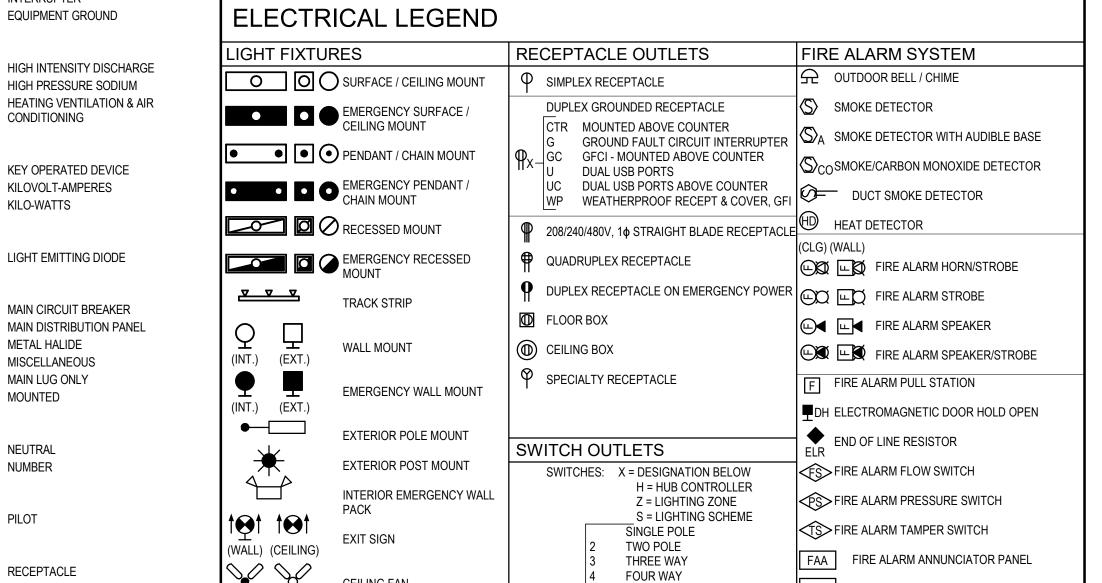
MICHIGAN

GROUNDING BONDING DIAGRAM SEPARATELY DERIVED SYSTEM **NOTES** 1. SIZE GROUNDING/BONDING CONDUCTORS PER NEC ARTICLE 250 2. GROUNDING ELECTRODE SYSTEM AS PER NEC ARTICLE 250 SECTION III. BRANCH PANEL TYPICAL 3Ø 4-WIRE DRY-TYPE TRANSFORMER BONDING JUMPER SERVICE FROM SERVICE PANEL SUPPLY-SIDE BONDING JUMPER-GROUNDED CONDUCTOR-—SYSTEM BONDING CONNECTIONS BY SERVICE BRANCH PANEL TYPICAL 3Ø 4-WIRE DRY-TYPE UTILITY TRANSFORMER GRADE GROUNDED CONDUCTOR— **—EQUIPMENT GROUNDING** CONDUCTOR GROUNDING ELECTRODE -MAIN BUILDING JUMPER GROUNDING ELECTRODE

TYPICAL MOUNTING HEIGHTS

REFER TO NOTE 2—





GHT) (NO LIGHT)		X	FACP FIRE ALARM CONTROL PANEL  HSS HOOD SUPPRESSION SYSTEM FIRE ALARM CONTACT
OWER DIS	STRIBUTION	\$ M MOTION DETECTION	TELEPHONE/COMMUNICATIONS
	DISCONNECT SWITCH	O OCCUPANCY SENSOR P PILOT LIGHT	(CLG) (WALL) (FLR) (FURN)
Dr €	FUSED DISCONNECT SWITCH	T TIMER	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
IAE	MOTOR STARTER DISCONNECT SWITCH	SENSORS X = DESIGNATION BELOW D = DAYLIGHT O = OCCUPANCY V = VACANCY	X = NUMBER AND TYPE OF PORTS
⊠ N	MOTOR STARTER	Z Z H = HUB CONTROLLER S Z = LIGHTING ZONE	C COAXIAL PORT D DATA PORT
М	ELECTRICAL METER	(CEILING) (WALL) S = LIGHTING SCHEME	H HDMI PORT P PHONE PORT
DP##		PUSH BUTTON	W WIRELESS ACCESS POINT
	DISTRIBUTION PANEL	☐ EMERGENCY STOP BUTTON	(CEILING) (WALL)
	ELECTRICAL POWER PANEL SURFACE MOUNT	PC PHOTOCELL	ST SPEAKER
(==::::\			

		PUSH BUTTON		W WIRELESS ACCESS PO
DP##>	DISTRIBUTION PANEL		(CEILING) (MALL)	<u> </u>
PP##	ELECTRICAL POWER PANEL SURFACE MOUNT	PC PHOTOCELL	(CEILING) (WALL)	SPEAKER
PP##	ELECTRICAL POWER PANEL	- CEILING MOUNTED PULL SWITCH	IC	INTERCOM CALL BOX
LP##	FLUSH MOUNT	WIRELESS NETWORK LIGHTING CONTROLLER	B	BELL
	LIGHITNG CONTROL PANEL	(HUB) H# = CONTROLLER INDICATOR  SECURITY	M	MICROPHONE JACK
R	RELAY	CR CARD READER	PS	POWER SUPPLY
T	ELECTRICAL TRANSFORMER	DC MAGNETIC SWITCH (DOOR CONTACT)	WG	REQUIRES WIRE GUARD
РВ	ELECTRICAL PULL BOX	DL ELECTRONIC DOOR LOCK	NURSE	NURSE CALL MAIN PANEL
IJ 幼 (WALL)(FLR)	JUNCTION BOX	DO MOTORIZED DOOR OPERATOR	N	NURSE CALL PULL STATION
	SINGLE PHASE MOTOR	ES ELECTRIC STRIKE	M	NURSE CALL LIGHT
Ø	THREE PHASE MOTOR	K KEYPAD ENTRY DEVICE	φ	CLOCK

I/C ENTRANCE CALL SYSTEM

VARIABLE FREQUENCY DRIVE

CEWAY NOTES	WIRES	•		
MINIMUM SIZE OF RIGID CONDUIT SHALL BE	POWER CIRCUIT WIRING	PROPOSED	EXISTING	DEMOLISH
3/4".	UNDERGROUND WIRING			
MINIMUM SIZE OF FLEX CONDUIT SHALL BE 1/2".	SWITCH LOOP WIRING			
MINIMUM SIZE WALL BOX IN CMU SHALL BE 4"X4".	UN-SWITCHED HOT WIRING	G		
MINIMUM SIZE OF UNDERGROUND CONDUIT	LOW VOLTAGE WIRING			
SHALL BE 1 1/4"	DATA WIRING			

1.) SEE DOOR HARDWARE SPECIFICATION FOR RANGE ENTRY AND MAIN ENTRY DOOR OPERATION.

2.) PROVIDE CAT5E CABLE TO SOUTH EAST CORNER OF OFFICE 102 FOR ALL PHONE JACKS.

3.) PROVIDE CAT5E CABLE TO RANGE EQUIPMENT SERVER FOR ALL DATA PORTS MARKED 1D.

PROVIDE AND INSTALL RJ-45 CONNECTOR ON SERVER END OF CABLE.

PROVIDE 10' COIL ABOVE OFFICE CEILING.

-- MOUNT ON WALL 9' AFF. VERIFY

RANGE EQUIPMENT SUPPLIER.

-MOUNT ON WALL 9' AFF. VERIFY

RANGE EQUIPMENT SUPPLIER.

EXACT LOCATION WITH SHOOTING

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\_\_AND 2/C #18AWG TO DOOR CONTROL MODULE.\_\_\_\_\_

**EXACT LOCATION WITH SHOOTING** 

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2" CONDUIT W/ 3-#3/0 + #6G-BOND SERVICE PANEL TO INCOMING WATER MAIN HERE. -PAD AND TRANSFORMER PROVIDED AND INSTALLED BY UPPCO. COORDINATE EXACT LOCATION WITH UPPCO. 2 PARALELL RUNS 3" CONDUIT EACH WITH STUB OUT ABOVE CEILING.-3-350MCM TO UPPCO TRANSFORMER LOCATION =2 PARALELL RUNS 3" CONDUIT : 2" CONDUIT WITH 2-#1/0AWG + #8G-EACH WITH 3-350MCM 3/4" CONDUIT TO HVAC CONTROLLER W/ 2/C #18AWG & #18 TW/SHLD PAIR MOUNT 72" AFF, PROVIDE 2" CONDUIT-HVAC CONTROLLER — ► EF-1 VFD STUBBED OUT ABOVE CEILING. PROVIDE \ MOUNT 5' AFF-----1" CONDUIT W/ 3-#4AWG + 4G 1 1/2" CONDUIT W/ 3-#6AWG + 6G 4"x4" GANG BOX AND BLANK COVER PLATE. 3/4" CONDUIT W/ 7/C #18AWG 2-3/4" CONDUITS TO HVAC 3/4" CONDUIT W/ 7/C #18AWG CONTROLLER. COORDINATE WITH MOUNT 72" AFF-MECHANICAL CONTRACTOR. -1" CONDUIT WITH 2-#6AWG + #10G \_\_\_1" CONDUIT WITH 2-#6AWG + #10G LIGHTING MOTION SENSOR

-2" CONDUIT WITH 2-#2/0AWG + #6G

-RANGE EQUIPMENT SERVER. BY OTHERS

PROVIDE RJ-45 CONNECTOR AND CAT5E

CABLE TO SE CORNER OF OFFICE 102.

-MOUNT 72" AFF. PROVIDE 2" CONDUIT

MOUNT 5' AFF TO CENTER.

1D=0

MODULE

-MAG LOCK PROVIDE 3/4" -

CONDUIT TO DOOR CONTROL

\_\_\_STUBBED OUT ABOVE CEILING. PROVIDE \_

4"x4" GANG BOX AND BLANK COVER PLATE.

-PENDANT MOUNT 8'-6" AFF. VERIFY EXACT LOCATION

RECEPTACLES AND DATA PORTS ABOVE BOOTHS.

-DOOR INDICATOR LIGHT. PROVIDE 3/4" CONDUIT

3/4" CONDUIT TO HVAC CONTROLLER W/ 2/C #18AWG & #18 TW/SHLD PAIR ==

IN ROOM.

MODULE. MOUNT

ABOVE CEILING

—DOOR RELEASE PULL STATION.

#18AWG TO DOOR CONTROL

MODULE.

PROVIDE 3/4" CONDUIT AND 2/C

MOUNT 72" AFF. PROVIDE 2" CONDUIT STUBBED OUT ABOVE CEILING. PROVIDE 4"x4" GANG -BOX AND BLANK PLATE.—

MOUNT 84" AFF

MOUNT 72" AFF

**P** 

DOOR INDICATOR LIGHT. PROVIDE

3/4" CONDUIT AND 2/C #18AWG TO

DOOR CONTROL MODULE.

MOUNT 5' AFF TO CENTER. —

←ADA PUSHBUTTON PROVIDE 3/4" CONDUIT

AND 2/C #18AWG TO DOOR CONTROLLER

-2" CONDUIT FOR

DATA. STUB OUT

ABOVE CEILING.

ADA PUSHBUTTON PROVIDE 3/4" CONDUIT AND 2/C #18AWG

DOOR CONTROLLER

JUNCTION BOXES -

ADA PUSHBUTTONS PROVIDE

3/4" CONDUIT AND 2/C #18AWG TO DOOR CONTROLLER-

TO DOOR CONTROLLER -

WALL MOUNT 8'-6" AFF
CENTER ABOVE DOOR

WALL MOUNT 10' AFF CENTER ABOVE DOOR —

PROVIDE \_\_ DRYWALL\_ FRAME KIT—

LT1

WALL MOUNT 10' AFF.-

FLOOR 1 LIGHTING PLAN

TO POLE MOUNTED FIXTURE HA1 VIA HH. SEE SHEET C-3 FOR EXACT LOCATION

←SUSPEND 8' AFF

LP1 - 28

1" CONDUIT WITH 2-#8AWG + #8G. CENTER VERTICALLY (TYPICAL EXTERIOR LIGHTING) IN METAL PANEL

11' - 2 3/4"

PENDANT MOUNT 10' AFF. COORDINATE EXACT LIGHT LOCATION WITH RANGE BAFFLE INSTALLATION. BAFFLES SHALL NOT BLOCK LIGHT ONTO RANGE FLOOR. TYP LS2 AND LS3 FIXTURES.

7' - 10 3/8"

─WALL MOUNT 10' AFF. CENTER VERTICALLY IN METAL PANEL

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8' - 1 5/8"

MECHANICAL 110

1" SPARE PVC CONDUIT FROM LP1
TO HH. SEE SHEET C-3 FOR HH LOCATION

17' - 3 65/256"—



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E-102

calcs based on 240-volt, 1-phase

### Electrical Load Calculations

Phase	Description	Quantity	Unit	Quantity	Unit	kVA	Factor	kVA	Amps	]
1	Lighting Loads (Range)	1	VA/sq.ft.	2572	sq.ft.	2.57	1.00	2.6	21.43	continuous
1	Lighting Loads (Business Area)	3.5	VA/sq.ft.	2540	sq.ft.	8.89	1.00	8.9	74.08	continuous
1	Exterior Lighting	8	each	100	VA	0.80	1.00	0.8	3.33	continuous
1	Receptacles (DUPLEX) up to 10KVA	40	each	180	VA	7.20	1.00	7.2	30.00	continuous
1	Receptacles over 10KVA		each	180	VA	0.00	0.50	0.0	0.00	continuous
1	Microwave	1	each	1200	VA	1.20	1.00	1.2	5.00	non-continuous
1	Refridgerator	1	each	1200	VA	1.20	1.00	1.2	5.00	non-continuous
1	MUA (Range)	1	each	27000	VA	27.00	1.00	27.0	112.50	continuous
1	EF (Range)	1	each	31700	VA	31.70	1.00	31.7	132.08	continuous
1	Furnace	1	each	1200	VA	1.20	1.00	1.2	5.00	non-continuous
1	Condenser 1,2	2	each	8952	VA	17.90	1.00	17.9	74.60	non-continuous
			each		VA	0.00	1.00	0.0	0.00	non-continuous
	TOTAL kVA			Connected:		80.56	Demand:	99.67		]

Demand Load - each phase

415.3 Amps

407 Amps Continuous Load\*1.25 - each phase 90 Amps Non-continuous Load - each phase 497 Amps Total Amps - each phase

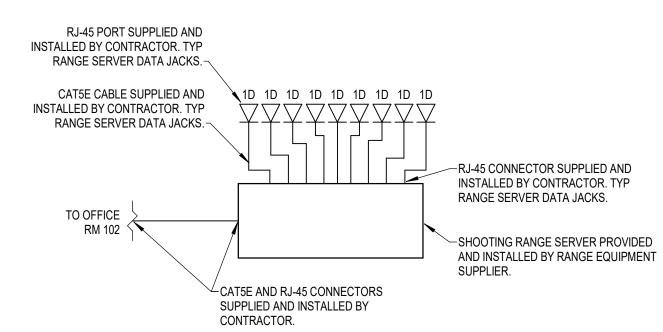
Actual Main Overcurrent Protection 600 Amps

Project # 0860-17-0010

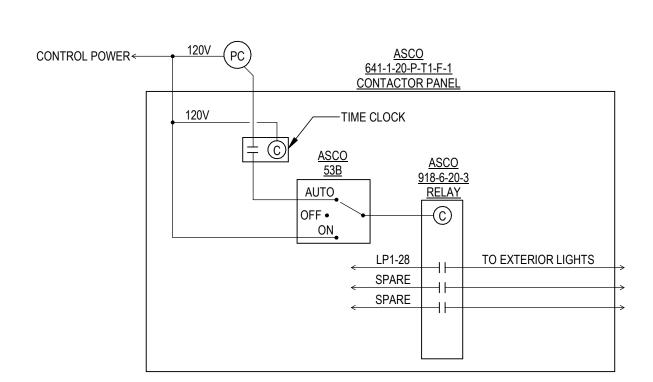
-RJ-11 PORT SUPPLIED AND INSTALLED BY CONTRACTOR.
TYP TELEPHONE JACKS. CAT5E CABLE SUPPLIED AND INSTALLED BY CONTRACTOR.

TYP TELEPHONE JACKS.-10' COIL-MECHANICAL 110

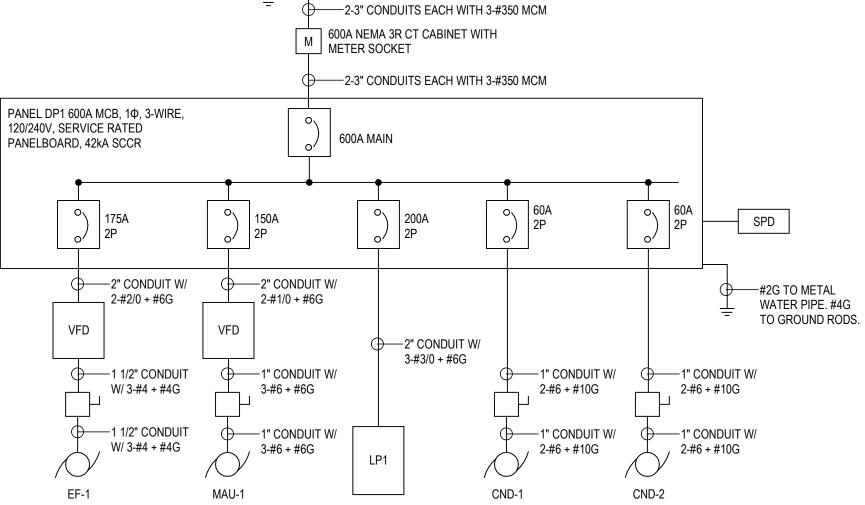
TELEPHONE RISER DIAGRAM







RELAY CONTROL PANEL LC1 DIAGRAM



PROVIDE BLACK TILE

RECEPTACLE WITH USB CHARGING PORTS-

**TOP VIEW** 

FB1 FACEPLATE DETAIL

UTILITY TRANSFORMER 120/240V SINGLE PHASE TRANSFORMER

COVERPLATE¬

-PROVIDE LOW

**VOLTAGE BARRIER** 

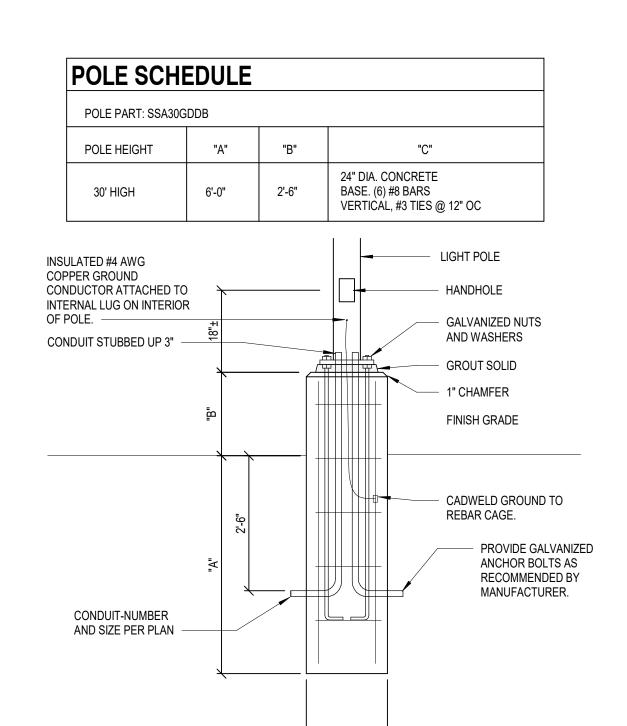
-COVER TO BE FLUSH WITH TILE FLOOR

HDMI INPUT

-RJ-45 PORT

RJ-45 PORT

ELECTRICAL ONELINE DIAGRAM



& REINF



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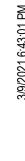
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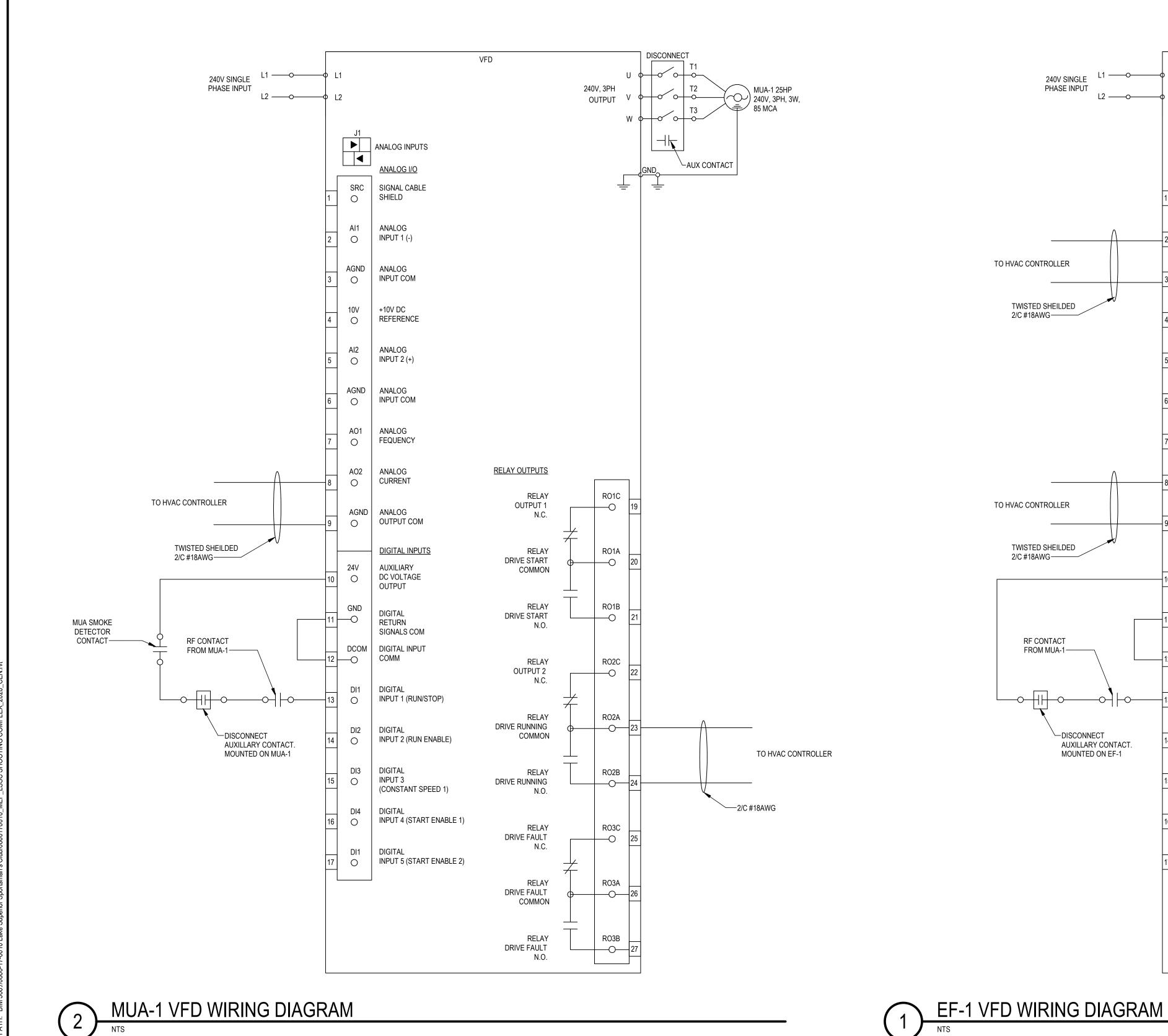
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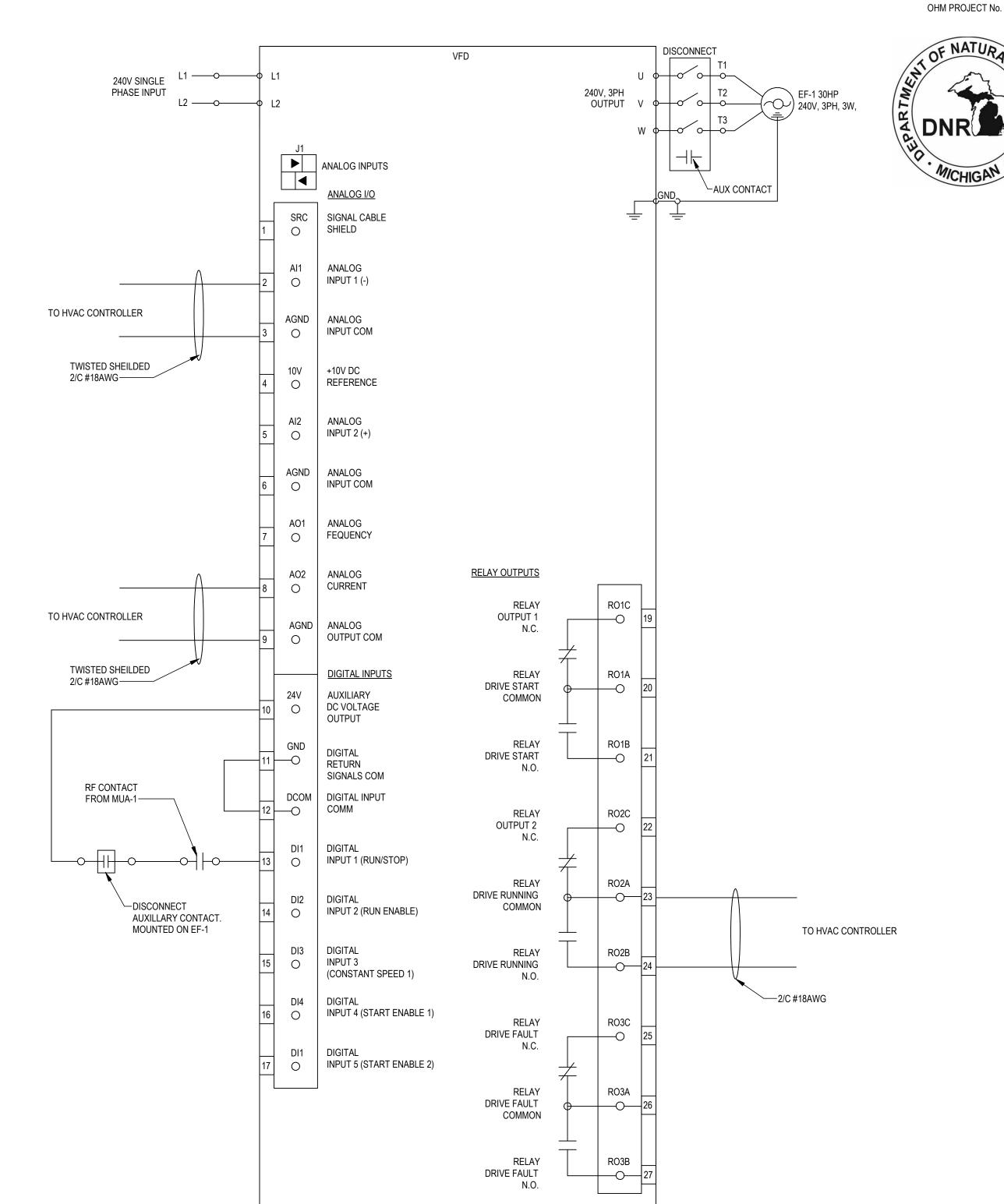
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B & M







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1.) UPSIZE VFD FOR SINGLE PHASE INPUT.

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E-502

1 SCHEME NO.

SCHEDULE I	NOTES:					
TYPE	DESCRIPTION	MFR.	CATALOG #	LAMPS	WATTS	NOTES
HA1	POLE MOUNTED FIXTURE	MCGRAW EDISON	GLEON-AF-03-LED-E1-SL3-BZ-QMEA-LED	LED	191	PROVIDE SSA30GDDB POL
LS1	LINEAR STRIP LIGHT	METALUX	4SNLED-LD5-34SL-LC-UNV-L840-C-D1	LED	25	
LS1E	LINEAR STRIP LIGHT EMERG	METALUX	4SNLED-LD5-34SL-LC-UNV-EL14W-L840-C-D1	LED	25	REQUIRES UNSWITCHED H
LS2	LINEAR PENDANT LIGHTING FIXTURE	METALUX	8WSL-LD2-60-SPC-UNV-L840-CD1	LED	53.5	PROVIDE ARLINGTON BOX FS420SCL
LS3	LINEAR PENDANT LIGHTING FIXTURE	METALUX	4WSL-LD2-50-SPC-UNV-L840-CD1	LED	44.8	PROVIDE ARLINGTON BOX FS420SCL
LS4	LINEAR STRIP LIGHT	METALUX	2BCLED-LD4-28HL-F-UNV-L840	LED	29	
LT1	2 X 2 RECESSED TROFER	METALUX	22FP3240C	LED	29.2	
LT1E	2 X 2 RECESSED TROFER EMERG	METALUX	22FP3240C-EL14W	LED	29.2	REQUIRES UNSWITCHED H
LT2	2 X 2 RECESSED TROFER	METALUX	22FP4240C	LED	38.3	
WP1	WALL PACK	LUMARK	XTOR2B-W	LED	18	
WP2	WALL PACK	LUMARK	XTOR8BRL-W	LED	81	
WS1	4' LED WALL MOUNT	METALUX	4SWLED-80HL-LN-UNV-L840	LED	82.4	
WS1E	LINEAR STRIP LIGHT EMERG	METALUX	4SWLED-80HL-LN-UNV-EL14W-L840	LED	82.4	

SCHEDULE	NOTES:					
_	NOTES.					
1. 2.						
TYPE	DESCRIPTION	MFR.	CATALOG#	LAMPS	WATTS	NOTES
HA1	POLE MOUNTED FIXTURE	MCGRAW EDISON	GLEON-AF-03-LED-E1-SL3-BZ-QMEA-LED	LED	191	PROVIDE SSA30GDDB POLE
LS1	LINEAR STRIP LIGHT	METALUX	4SNLED-LD5-34SL-LC-UNV-L840-C-D1	LED	25	
LS1E	LINEAR STRIP LIGHT EMERG	METALUX	4SNLED-LD5-34SL-LC-UNV-EL14W-L840-C-D1	LED	25	REQUIRES UNSWITCHED HOT
LS2	LINEAR PENDANT LIGHTING FIXTURE	METALUX	8WSL-LD2-60-SPC-UNV-L840-CD1	LED	53.5	PROVIDE ARLINGTON BOX FS420SCL
LS3	LINEAR PENDANT LIGHTING FIXTURE	METALUX	4WSL-LD2-50-SPC-UNV-L840-CD1	LED	44.8	PROVIDE ARLINGTON BOX FS420SCL
LS4	LINEAR STRIP LIGHT	METALUX	2BCLED-LD4-28HL-F-UNV-L840	LED	29	
LT1	2 X 2 RECESSED TROFER	METALUX	22FP3240C	LED	29.2	
LT1E	2 X 2 RECESSED TROFER EMERG	METALUX	22FP3240C-EL14W	LED	29.2	REQUIRES UNSWITCHED HOT
LT2	2 X 2 RECESSED TROFER	METALUX	22FP4240C	LED	38.3	
WP1	WALL PACK	LUMARK	XTOR2B-W	LED	18	
WP2	WALL PACK	LUMARK	XTOR8BRL-W	LED	81	
WS1	4' LED WALL MOUNT	METALUX	4SWLED-80HL-LN-UNV-L840	LED	82.4	
WS1E	LINEAR STRIP LIGHT EMERG	METALUX	4SWLED-80HL-LN-UNV-EL14W-L840	LED	82.4	
X1	EXIT SIGN	SURE-LITES	LPX7	LED	18	REQUIRES UNSWITCHED HOT
					_	
		LI(	GHTING CONTROL SC	HEDULI		

X1 EXII	SIGN			SU	RE-LITES		LPX7 LED 18 REQUIRES UNSWITCHED HOT
						LIGH	ITING CONTROL SCHEDULE
SCHEME NO.	× MANUAL ON	NO. OF SCENES	< MULTIPLE ZONES	× DAYLIGHTING	OCCUPANCY SENSOR	× VACANCY SENSOR	ORDER OF OPERATIONS  WALL MOUNTED SWITCH TURNS ON ALL FIXTURES ON TO 100%. ALL FIXTURES TURN OFF 15 MINUTES AFTER ROOM IS VACATED. DAYLIGHT
	^	'	^	^		^	SENSOR TO BE 0-10V DIMMING AND CONTROL ALL FIXTURES IN THE SPACE. WALL DIMMER TO CONTROL ALL FIXTURES IN THE SPACE AND CONTROL ZONES INDEPENDENTLY.
2	Х	1					WALL MOUNTED SWITCH TO TURN ALL FIXTURES ON 100%. MANUAL SWITCH TO TURN ALL FIXTURES OFF. ALL FIXTURES TO BE DIMMABLE. WALL DIMMER TO CONTROL ALL FIXTURES IN THE SPACE.
3		1			Х		OCCUPANCY SENSOR TO TURN ON FIXTURES TO 100%. FIXTURES TURN OFF 15 MINUTES AFTER AREA IS VACATED. WALL SWITCH FOR ON/OFF CONTROL. ALL FIXTURES TO BE DIMMABLE.
4	Х	1				Х	WALL MOUNTED SWITCH TURNS ALL FIXTURES ON TO 100%. ALL FIXTURES TURN OFF 15 MINUTES AFTER ROOM IS VACATED. WALL DIMMER TO CONTROL ALL FIXTURES IN THE SPACE. ALL FIXTURES TO BE DIMMABLE.
5	Х	1	Х			Х	WALL MOUNTED SWITCH TURNS ALL ZONES ON SWITCH TO 100%. ALL FIXTURES TURN OFF 15 MINUTES AFTER ROOM IS VACATED. WALL DIMMER TO CONTROL ALL ZONES ON SWITCH AND CONTROL ZONES ON SWITCH INDEPENDENDTLY. ALL FIXTURES TO BE DIMMABLE.
7		1			Х		OCCUPANCY SENSOR TO TURN ON FIXTURES TO 100%. ALL FIXTURES TURN OFF 15 MINUTES AFTER ROOM IS VACATED. WALL SWITCHES FOR ON/OFF CONTROL AND DIMMING OF ALL FIXTURES IN THE SPACE. ALL FIXTURES TO BE DIMMABLE.

MAIN PANEL: DP1

VOLTS: 120/240 Single A.I.C. RATING 65k **LOCATION: MECHANICAL 110** MAINS TYPE: MCB SUPPLY FROM: PHASES: 1 MOUNTING: SURFACE MAINS RATING: 600.0 A WIRES: 3 **ENCLOSURE**: Type 1 MCB RATING: 600.0 A

**ENCLOSURE**: TYPE 1

IDENTIFICATION	WIRE	POLE	AMP	СКТ	A kVA	B kVA	A kVA	B kVA	СКТ	AMP	POLE	WIRE	IDENTIFICATION
MUA-1	1/0	2	150	1	13		15.90		2	175	2	2/0	EF-1 VFD (240V)
WOA-1	170	2	130	3		13.50		15.90	4	175	2	2/0	EF-1 VFD (240V)
CND-1	6	2	60	5	4.50		4.50		6	60	2	6	CND-2
CND-1	0	2	00	7		4.50		4.50	8	00	2	0	CND-2
I D4	3/0	2	200	9	10				10				
LP1	3/0	2	200	11		7.04			12				
	(kVA)	49	.34		0.00				•				

**BRANCH PANEL: LP1 LOCATION: MECHANICAL 110** SUPPLY FROM: DP1 **MOUNTING:** SURFACE

VOLTS: 120/240 Single PHASES: 1 WIRES: 3

A.I.C. RATING: 22k MAINS TYPE: MLO MAINS RATING: 200.0 A

NOTES:

						_		_					
IDENTIFICATION	WIRE	POLE	AMP	СКТ	Α	В	A	В	СКТ	AMP	POLE	WIRE	IDENTIFICATION
RECEPTS RM 102	12	1	20	1	1.08		1.08		2	20	1	12	RECEPTS RM
RECEPTS RM101,103,112	12	1	20	3		0.90		0.36	4	20	1	12	FLOOR BOXES RM 101
RECEPTS RM 111,112, 101	12	1	20	5	1.26		0.36		6	20	1	12	EXTERIOR RECEPTS
RECEPT RM 108	12	1	20	7		0.18		0.18	8	20	1	12	RECEPT RM 108
RECEPT RM 108	12	1	20	9	0.18		0.54		10	20	1	12	RECEPTS RM 108
RECEPTS RM 108	12	1	20	11		0.90		0.54	12	20	1	12	SERVICE RECEPT RM 110
RECEPTS RM 109, 108	12	1	20	13	0.90		0.18		14	20	1	12	RECEPT RM 104
RECEPTS RM 104,105	12	1	20	15		0.54		0.18	16	20	1	12	RECEPT RM 104
RECEPT RM 104	12	1	20	17	0.18		0.18		18	20	1	12	RECEPT RM 104
FURNACE DISCONNECT	12	1	20	19		0.00		0.00	20	20	1	12	FURNACE DISCONNECT
DOOR OPERATORS	12	1	20	21	1.00		0.54		22	20	1	12	RECEPTS RM 106,107
LIGHTS RANGE	12	1	20	23		0.57		0.01	24	20	1	12	LIGHTS
LIGHTS RANGE	12	1	20	25	0.99		0.01		26	20	1	12	LIGHTS
LIGHTS RANGE	12	1	20	27		0.57		0.75	28	20	1	12	EXTERIOR WALL PACKS
HAND DRYERS	12	2	20	29	0.50		0.74		30	20	1	12	MUA-1, GUH-1
				31		0.50		0.50	32	20	1	12	TOILET ROOM FANS
FLOOR BOXES RM 108	12	1	20	33	0.18		0.50		34	20	1	12	DOOR CONTROL MODULE
HVAC CONTROLLER	12	1	20	35		0.18		0.18	36	20	1	12	RECEPTS BOOTHS NORTH
FUTURE POLE LIGHT		1	20	37	0.00		0.54		38	20	1	12	RECEPTS BOOTHS SOUTH
				39					40				

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